No.	Co-authors	Article title	Keywords	Vol., No., pp.	DOI	Citation
1	Ugochukwu, N.C., Sunday, A.V., Sani, A.M., Chinonso, O.E.	Explicit study of epoxy/ momordica angustisepala fiber and rice husk ash nanoparticle composites for roofing sheet application	stress analysis, momordica angustisepala fiber, rice husk ash nanoparticle, roofing sheets	44, 6, 375-380	https://doi.org/10.18280/acsm.440601	Ugochukwu, N.C., Sunday, A.V., Sani, A.M., Chinonso, O.E. (2020). Explicit study of epoxy/ momordica angustisepala fiber and rice husk ash nanoparticle composites for roofing sheet application. Annales de Chimie - Science des Matériaux, Vol. 44, No. 6, pp. 375-380. https://doi.org/10.18280/acsm.440601
2	Laroui, W., Chegroune, R., Talaş, Ş., Keddam, M., Badji, R.	Microstructural and mechanical characterization of shielded metal arc welded dual phase steel joints	dual-phase steel, fractography, heat affected zone, heat treatment, welding	44, 6, 381-386	https://doi.org/10.18280/acsm.440602	Laroui, W., Chegroune, R., Talaş, Ş., Keddam, M., Badji, R. (2020). Microstructural and mechanical characterization of shielded metal arc welded dual phase steel joints. Annales de Chimie - Science des Matériaux, Vol. 44, No. 6, pp. 381-386. https://doi.org/10.18280/acsm.440602
3	Sequeira, A., Ahmed, A.R., George, R., Sachidananda, K.H.	Empirical study of solar absorber metamaterial characterization in GHz and THz regime	materials chemistry, numerical analysis, solar absorber, smart material, wavelength	44, 6, 387-392	https://doi.org/10.18280/acsm.440603	Sequeira, A., Ahmed, A.R., George, R., Sachidananda, K.H. (2020). Empirical study of solar absorber metamaterial characterization in GHz and THz regime. Annales de Chimie - Science des Matériaux, Vol. 44, No. 6, pp. 387-392. https://doi.org/10.18280/acsm.440603
4	Yuan, J., Zhao, B.X., Wang, Z.Q., Liu, Y.	Carbonization law of fly ash concrete under freeze-thaw cycles based on image-pro plus	IPP, freeze-thaw cycles, ratio of carbonized area (RCA), fly ash concrete, carbonization depth	44, 6, 393-398	https://doi.org/10.18280/acsm.440604	Yuan, J., Zhao, B.X., Wang, Z.Q., Liu, Y. (2020). Carbonization law of fly ash concrete under freeze-thaw cycles based on image-pro plus. Annales de Chimie - Science des Mat ériaux, Vol. 44, No. 6, pp. 393-398. https://doi.org/10.18280/acsm.440604
5	Uppalapati, G., Gunji, S., Malkapuram, R.	Morphological characterization of chicken feather rachis, neem sawdust, and high density polyethylene (HDPE) reinforced composite material	FESEM, XRD, HDPE(H) Granules, Chicken Feather (CF), Saw Dust (SD)	44, 6, 399-406	https://doi.org/10.18280/acsm.440605	Uppalapati, G., Gunji, S., Malkapuram, R. (2020). Morphological characterization of chicken feather rachis, neem sawdust, and high density polyethylene (HDPE) reinforced composite material. Annales de Chimie - Science des Maté riaux, Vol. 44, No. 6, pp. 399-406. https://doi.org/10.18280/acsm.440605
6	Ennaciri, Y., Bettach, M., El Alaoui-Belghiti, H.	Phosphogypsum conversion into calcium fluoride and sodium sulfate	phosphogypsum, sodium fluoride, calcium fluoride, sodium sulfate, wet conversion	44, 6, 407-412	https://doi.org/10.18280/acsm.440606	Ennaciri, Y., Bettach, M., El Alaoui-Belghiti, H. (2020). Phosphogypsum conversion into calcium fluoride and sodium sulfate. Annales de Chimie - Science des Matériaux, Vol. 44, No. 6, pp. 407-412. https://doi.org/10.18280/acsm.440606
7	Badaoui, A., Belhadji, M., Ameur, H., Kaid, N.	Theoretical investigation of structural and optoelectronic properties of ternary acetylides A2MC2 (A = Li, Na, K) and (M = Te, Pb, Pt)	theoretical study, density functional theory, optoelectronic properties, material engineering, material characterization, ternary acetylides	44, 6, 413-419	https://doi.org/10.18280/acsm.440607	Badaoui, A., Belhadji, M., Ameur, H., Kaid, N. (2020). Theoretical investigation of structural and optoelectronic properties of ternary acetylides A2MC2 (A = Li, Na, K) and (M = Te, Pb, Pt). Annales de Chimie - Science des Matériaux, Vol. 44, No. 6, pp. 413-419. https://doi.org/10.18280/acsm.440607
8	Srivastava, A.K., Maurya, N.K., Maurya, M., Dwivedi, S.P., Saxena, A.	Effect of multiple passes on microstructural and mechanical properties of surface composite Al 2024/SiC produced by friction stir processing	Al2024 alloy, friction stir processing, Rockwell hardness test, tensile strength, nano indentation	44, 6, 421-426	https://doi.org/10.18280/acsm.440608	Srivastava, A.K., Maurya, N.K., Maurya, M., Dwivedi, S.P., Saxena, A. (2020). Effect of multiple passes on microstructural and mechanical properties of surface composite Al 2024/SiC produced by friction stir processing. Annales de Chimie - Science des Matériaux, Vol. 44, No. 6, pp. 421-426. https://doi.org/10.18280/acsm.440608
9	Yao, Y.H., Wang, Y.H., Xu, J., Hu, Y.J.	Influence of basalt fiber on the physical and mechanical properties of aerated ceramsite concrete	Aerated Ceramsite Concrete (ACC), lightweight wallboards, Basalt Fiber (BF), physical and mechanical properties	44, 6, 427-432	https://doi.org/10.18280/acsm.440609	Yao, Y.H., Wang, Y.H., Xu, J., Hu, Y.J. (2020). Influence of basalt fiber on the physical and mechanical properties of aerated ceramsite concrete. Annales de Chimie - Science des Matériaux, Vol. 44, No. 6, pp. 427-432. https://doi.org/10.18280/acsm.440609
10	Rathanasalam, V., Perumalsami, J., Jayakumar, K.	Characteristics of blended geopolymer concrete using ultrafine ground granulated blast furnace slag and copper slag	geopolymer concrete, copper slag, fly ash, ultrafine ground granulated blast furnace slag	44, 6, 433-439	https://doi.org/10.18280/acsm.440610	Rathanasalam, V., Perumalsami, J., Jayakumar, K. (2020). Characteristics of blended geopolymer concrete using ultrafine ground granulated blast furnace slag and copper slag. Annales de Chimie - Science des Matériaux, Vol. 44, No. 6, pp. 433-439. https://doi.org/10.18280/acsm.440610
11	Gopi, V., Swamy, K.K., Gopi, A.P., Narayana, V.L.	Experimental study on shear behavior of reinforced concrete sandwich deep beam	deep beam, shear reinforcement, insulation pad, crack pattern, diagonal crack	44, 5, 301-309	https://doi.org/10.18280/acsm.440501	Gopi, V., Swamy, K.K., Gopi, A.P., Narayana, V.L. (2020). Experimental study on shear behavior of reinforced concrete sandwich deep beam. Annales de Chimie - Science des Maté riaux, Vol. 44, No. 5, pp. 301-309. https://doi.org/10.18280/acsm.440501
12	Chabane, M., Melkaoui, C., Dahmani, B., Belalia, S.Z.	Preparation and characterization of matrix hybrid membranes polyvinylidene fluoride/polyvinylpyrrolidone/silica gel/zinc oxide for Cr(VI) removal from water	chromium, hybrid, membrane, PVDF, silica gel, ZnO	44, 5, 311-318	https://doi.org/10.18280/acsm.440502	Chabane, M., Melkaoui, C., Dahmani, B., Belalia, S.Z. (2020). Preparation and characterization of matrix hybrid membranes polyvinylidene fluoride/polyvinylpyrrolidone/silica gel/zinc oxide for Cr(VI) removal from water. Annales de Chimie - Science des Matériaux, Vol. 44, No. 5, pp. 311-318. https://doi.org/10.18280/acsm.440502
13	Zhao, Y.G.B., Dong, Y.D.	Seismic response of reinforced concrete frame-shear wall structure with metal rubber-based damper in coupling beam	metal rubber, constitutive model, damper, coupling beam, seismic response	44, 5, 319-326	https://doi.org/10.18280/acsm.440503	Zhao, Y.G.B., Dong, Y.D. (2020). Seismic response of reinforced concrete frame-shear wall structure with metal rubber-based damper in coupling beam. Annales de Chimie - Science des Matériaux, Vol. 44, No. 5, pp. 319-326. https://doi.org/10.18280/acsm.440503
14	Abid, A., El Bouhtoury, F.C., Gabsi, S.	Recovery of residues from olive industry: Characterization of simple and acetylated lignin	lignin organosolv, polyol, acetylation, characterization physico-chemical analyzes, sugar	44, 5, 327-332	https://doi.org/10.18280/acsm.440504	Abid, A., El Bouhtoury, F.C., Gabsi, S. (2020). Recovery of residues from olive industry: Characterization of simple and acetylated lignin. Annales de Chimie - Science des Matériaux, Vol. 44, No. 5, pp. 327-332. https://doi.org/10.18280/acsm.440504
15	Munivenkatappan, M.S.B., Shanmugam, S., Veeramani, A.	Synthesis and characterization of in-situ AA8011-TiB2 composites produced by flux assisted synthesis	aluminium matrix composite, flux assisted synthesis, in-situ stir casting technique, titanium diboride reinforcement, metallurgical studies, mechanical behaviour	44, 5, 333-338	https://doi.org/10.18280/acsm.440505	Munivenkatappan, M.S.B., Shanmugam, S., Veeramani, A. (2020). Synthesis and characterization of in-situ AA8011-TiB2 composites produced by flux assisted synthesis. Annales de Chimie - Science des Matériaux, Vol. 44, No. 5, pp. 333-338. https://doi.org/10.18280/acsm.440505
16	Mahadevappa, N., Shankar, V.K., Sehgal, S., Upadhya, R.	Study the impact of drilling process parameters on natural fiber reinforced herringbone epoxy composites	sisal fabric, drilling of composite, epoxy, grey regression analysis	44, 5, 339-345	https://doi.org/10.18280/acsm.440506	Mahadevappa, N., Shankar, V.K., Sehgal, S., Upadhya, R. (2020). Study the impact of drilling process parameters on natural fiber reinforced herringbone epoxy composites. Annales de Chimie - Science des Matériaux, Vol. 44, No. 5, pp. 339-345. https://doi.org/10.18280/acsm.440506
17	Guermat, N., Daranfed, W., Mirouh, K.	Extended wide band gap amorphous ZnO thin films deposited by spray pyrolysis	thin film, zinc oxide, substrate temperature, band gap, spray pyrolysis, XRD, contact angle, electrical conductivity	44, 5, 347-352	https://doi.org/10.18280/acsm.440507	Guermat, N., Daranfed, W., Mirouh, K. (2020). Extended wide band gap amorphous ZnO thin films deposited by spray pyrolysis. Annales de Chimie - Science des Matériaux, Vol. 44, No. 5, pp. 347-352. https://doi.org/10.18280/acsm.440507
18	Kavyateja, B.V., Reddy, P.N.	Effect of industrial waste on strength properties of concrete	metakaolin, illuminate sludge, glass bottle, eco-friendly concrete, cement replacement	44, 5, 353-358	https://doi.org/10.18280/acsm.440508	Kavyateja, B.V., Reddy, P.N. (2020). Effect of industrial waste on strength properties of concrete. Annales de Chimie - Science des Matériaux, Vol. 44, No. 5, pp. 353-358. https://doi.org/10.18280/acsm.440508
19	Mahadikar, A., Mamatha, E., Murthy, S., Doddapattar, N.B.	Variation in composition of aluminium alloy Al6463 on wear characteristics and compressive strength	aluminium alloy, magnesium, silicon, wear, compressive strength, material composition (MC)	44, 5, 359-364	https://doi.org/10.18280/acsm.440509	Mahadikar, A., Mamatha, E., Murthy, S., Doddapattar, N.B. (2020). Variation in composition of aluminium alloy Al6463 on wear characteristics and compressive strength. Annales de Chimie - Science des Matériaux, Vol. 44, No. 5, pp. 359-364. https://doi.org/10.18280/acsm.440509

20	Zhang, F., Wang, K., Dang, Y.R., Wu, G.Y.	Influence of meso-structure parameters on wave propagation in soil-rock mixture	soil-rock mixture, particle flow code (PFC), meso-structure features, wave parameters	44, 5, 365-373	https://doi.org/10.18280/acsm.440510	Zhang, F., Wang, K., Dang, Y.R., Wu, G.Y. (2020). Influence of meso-structure parameters on wave propagation in soil-rock mixture. Annales de Chimie - Science des Matériaux, Vol. 44, No. 5, pp. 365-373. https://doi.org/10.18280/acsm.440510
21	Zidani, C., Maouedj, R., Salmi, M.	Numerical simulation of water as base fluid dispersed by Al2O3 aluminum oxide nano-sized solid particles with various concentrations	characterization of nanofluids, physical properties, mechanical properties, fluid dynamics, turbulent viscosity, aluminum oxide, numerical simulation	44, 4, 231-238	https://doi.org/10.18280/acsm.440401	Zidani, C., Maouedj, R., Salmi, M. (2020). Numerical simulation of water as base fluid dispersed by Al2O3 aluminum oxide nano-sized solid particles with various concentrations. Annales de Chimie - Science des Matériaux, Vol. 44, No. 4, pp. 231-238. https://doi.org/10.18280/acsm.440401
22	Pawar, P., Kumar, A., Ballav, R.	Grey relational analysis optimization of input parameters for electrochemical discharge drilling of silicon carbide by gunmetal tool electrode	ECDM, hole diameter, machined depth, Silicon carbide, gunmetal, grey relational analysis	44, 4, 239-249	https://doi.org/10.18280/acsm.440402	Pawar, P., Kumar, A., Ballav, R. (2020). Grey relational analysis optimization of input parameters for electrochemical discharge drilling of silicon carbide by gunmetal tool electrode. Annales de Chimie - Science des Matériaux, Vol. 44, No. 4, pp. 239-249. https://doi.org/10.18280/acsm.440402
23	Abed, M.M., Al-maammori, M.H.	Optimization of novel sphere sandwich structure for impact requirements	carving wax, Sphere Sandwich Structure, lightweight materials, RSM- optimization	44, 4, 251-256	https://doi.org/10.18280/acsm.440403	Abed, M.M., Al-maammori, M.H. (2020). Optimization of novel sphere sandwich structure for impact requirements. Annales de Chimie - Science des Matériaux, Vol. 44, No. 4, pp. 251-256. https://doi.org/10.18280/acsm.440403
24	Chen, C.B., Tang, P.C., Zhuang, J.J.	Influence of waste slurry as mixing water on the properties of C80 concrete with different mineral admixtures	waste slurry, mixing station, high-performance concrete, mineral admixture	44, 4, 257-262	https://doi.org/10.18280/acsm.440404	Chen, C.B., Tang, P.C., Zhuang, J.J. (2020). Influence of waste slurry as mixing water on the properties of C80 concrete with different mineral admixtures. Annales de Chimie - Science des Matériaux, Vol. 44, No. 4, pp. 257-262. https://doi.org/10.18280/acsm.440404
25	Rabouhi, H., Khelfaoui, Y., Khireddine, A.	Comparative study by image analysis of WC-Co alloys elaborated by liquid phase sintering and hot isostatic pressing	sintering, hot isostatic pressing-cemented carbide, hardness, microstructure, image analysis	44, 4, 263-269	https://doi.org/10.18280/acsm.440405	Rabouhi, H., Khelfaoui, Y., Khireddine, A. (2020). Comparative study by image analysis of WC-Co alloys elaborated by liquid phase sintering and hot isostatic pressing. Annales de Chimie - Science des Matériaux, Vol. 44, No. 4, pp. 263-269. https://doi.org/10.18280/acsm.440405
26	Senapati, P.N., Bhoi, R.K.	Characterization of friction-stir welded joints of AA1100 by factorial design based hierarchical regression model	friction stir welding, full factorial design, design of experiments, hierarchical regression analysis, tensile strength, average grain size	44, 4, 271-280	https://doi.org/10.18280/acsm.440406	Senapati, P.N., Bhoi, R.K. (2020). Characterization of friction-stir welded joints of AA1100 by factorial design based hierarchical regression model. Annales de Chimie - Science des Matériaux, Vol. 44, No. 4, pp. 271-280. https://doi.org/10.18280/acsm.440406
27	Dwivedi, S.P., Sharma, S., Singh, T., Kumar, N.	Mechanical and metallurgical characterization of copper-based welded joint using brass as filler metal developed by microwave technique	copper, brass based powder, microwave technique, corrosion, specific strength	44, 4, 281-286	https://doi.org/10.18280/acsm.440407	Dwivedi, S.P., Sharma, S., Singh, T., Kumar, N. (2020). Mechanical and metallurgical characterization of copper-based welded joint using brass as filler metal developed by microwave technique. Annales de Chimie - Science des Maté riaux, Vol. 44, No. 4, pp. 281-286. https://doi.org/10.18280/acsm.440407
28	Huang, S.T., Zhang, Y.M., Jiao, X.D., Zhou, C.F.	Effects of welding parameters of pulsed gas metal arc welding on microstructure and mechanical performance of joints welded in hyperbaric environment	pulsed gas metal arc welding (GMAW), hyperbaric environment, arc voltage, pulse frequency, microstructure, mechanical performance	44, 4, 287-294	https://doi.org/10.18280/acsm.440408	Huang, S.T., Zhang, Y.M., Jiao, X.D., Zhou, C.F. (2020). Effects of welding parameters of pulsed gas metal arc welding on microstructure and mechanical performance of joints welded in hyperbaric environment. Annales de Chimie - Science des Matériaux, Vol. 44, No. 4, pp. 287-294. https://doi.org/10.18280/acsm.440408
29	Kumar, S., Srivastava, A.K., Singh, R.K.	Fabrication of AA7075 hybrid green metal matrix composites by friction stir processing technique	friction stir processing (FSP), hybrid green metal matrix composites (MMCs), aluminium alloys, waste management, environmentally friendly	44, 4, 295-300	https://doi.org/10.18280/acsm.440409	Kumar, S., Srivastava, A.K., Singh, R.K. (2020). Fabrication of AA7075 hybrid green metal matrix composites by friction stir processing technique. Annales de Chimie - Science des Maté riaux, Vol. 44, No. 4, pp. 295-300. https://doi.org/10.18280/acsm.440409
30	Mauduit, A., Gransac, H.	Study of the precipitation kinetics and mechanisms in 6000 series aluminium alloys through the measurement of electrical conductivity	electrical conductivity, precipitation kinetics, 6000 series aluminium alloys	44, 3, 141-149	https://doi.org/10.18280/acsm.440301	Mauduit, A., Gransac, H. (2020). Study of the precipitation kinetics and mechanisms in 6000 series aluminium alloys through the measurement of electrical conductivity. Annales de Chimie - Science des Matériaux, Vol. 44, No. 3, pp. 141-149. https://doi.org/10.18280/acsm.440301
31	Houari, T., Benguediab, M., Belaziz, A., Kebir, T.	Numerical modeling of high density polyethylene (HDPE) behavior using different fracture mechanics approaches	HDPE, fracture mechanics, EWF, J integral, GTN, global approach, local approach, Abaqus	44, 3, 151-160	https://doi.org/10.18280/acsm.440302	Houari, T., Benguediab, M., Belaziz, A., Kebir, T. (2020). Numerical modeling of high density polyethylene (HDPE) behavior using different fracture mechanics approaches. Annales de Chimie - Science des Matériaux, Vol. 44, No. 3, pp. 151-160. https://doi.org/10.18280/acsm.440302
32	Luo, E.H., Zhang, W., Zhang, R.X., Liu, Y., Liu, X.M., Wang, C.L.	A novel energy saving operation strategy of multiparameter coupling coordinated speed regulation for crushing	sustainable, energy saving, crushing station, multiparameter	44, 3, 161-178	https://doi.org/10.18280/acsm.440303	Luo, E.H., Zhang, W., Zhang, R.X., Liu, Y., Liu, X.M., Wang, C.L. (2020). A novel energy saving operation strategy of multiparameter coupling coordinated speed regulation for crushing. Annales de Chimie - Science des Matériaux, Vol. 44, No. 3, pp. 161-178. https://doi.org/10.18280/acsm.440303
33	Mekky, A.H.	Electrical and optical simulation of hybrid perovskite-based solar cell at various electron transport materials and light intensity	perovskite, electron transport layer, light intensity, GPVDM model, solar cells, performance parameters	44, 3, 179-184	https://doi.org/10.18280/acsm.440304	Mekky, A.H. (2020). Electrical and optical simulation of hybrid perovskite-based solar cell at various electron transport materials and light intensity. Annales de Chimie - Science des Matériaux, Vol. 44, No. 3, pp. 179-184. https://doi.org/10.18280/acsm.440304
34	Shahmir, N.G., Bhat, M.	Structural and luminance properties of light transmitting concrete	energy efficient, greenhouse gas, light transmitting concrete, plastic optical fiber	44, 3, 185-190	https://doi.org/10.18280/acsm.440305	Shahmir, N.G., Bhat, M. (2020). Structural and luminance properties of light transmitting concrete. Annales de Chimie - Science des Matériaux, Vol. 44, No. 3, pp. 185-190. https://doi.org/10.18280/acsm.440305
35	Belguendouz, O., Mebarek, B., Keddam, M., El Guerri, Y.	Diffusion model for simulating the kinetics of boronizing process in the case of FeB/Fe2B bilayer configuration	boronizing, simulation, iron borides, diffusion model, fick's law	44, 3, 191-197	https://doi.org/10.18280/acsm.440306	Belguendouz, O., Mebarek, B., Keddam, M., El Guerri, Y. (2020). Diffusion model for simulating the kinetics of boronizing process in the case of FeB/Fe2B bilayer configuration. Annales de Chimie - Science des Matériaux, Vol. 44, No. 3, pp. 191-197. https://doi.org/10.18280/acsm.440306
36	Luo, B.	Flexural behaviour of precast steel fibres reinforces concrete composite slabs with different shapes	precast, concrete composite slab (CCS), failure mode, ultimate bearing capacity, calculation method	44, 3, 199-209	https://doi.org/10.18280/acsm.440307	Luo, B. (2020). Flexural behaviour of precast steel fibres reinforces concrete composite slabs with different shapes. Annales de Chimie - Science des Matériaux, Vol. 44, No. 3, pp. 199-209. https://doi.org/10.18280/acsm.440307
37	Manjunath, R., Kumar, D.	Effects of aging temperature, time during transition from brittle to ductile on fracture behavior of zinc coated AA7075	age hardening, coating, facture toughness, scanning electron, microscope, brittle to ductile transition temperature	44, 3, 211-216	https://doi.org/10.18280/acsm.440308	Manjunath, R., Kumar, D. (2020). Effects of aging temperature, time during transition from brittle to ductile on fracture behavior of zinc coated AA7075. Annales de Chimie - Science des Matériaux, Vol. 44, No. 3, pp. 211-216. https://doi.org/10.18280/acsm.440308
38	Abdelghani, L.	Determination of the diffusion coefficient and the activation energy of fluoroplastics	DSC, expanded graphite, nanotube, transition, heating rate, dispersion	44, 3, 217-222	https://doi.org/10.18280/acsm.440309	Abdelghani, L. (2020). Determination of the diffusion coefficient and the activation energy of fluoroplastics. Annales de Chimie - Science des Matériaux, Vol. 44, No. 3, pp. 217-222. https://doi.org/10.18280/acsm.440309

39	Zhang, F., Zhou, L.X., Sun, X., Yuan, P.	A microscale shear wave velocity model of earth-rock aggregate	earth-rock aggregate (SAR), microscale, equivalent shear modulus, shear wave velocity	44, 3, 223-229	https://doi.org/10.18280/acsm.440310	Zhang, F., Zhou, L.X., Sun, X., Yuan, P. (2020). A microscale shear wave velocity model of earth-rock aggregate. Annales de Chimie - Science des Matériaux, Vol. 44, No. 3, pp. 223-229. https://doi.org/10.18280/acsm.440310
40	Kosmatskiy, Y.I., Lysov, D., Fokin, N., Nikolenko, V.	Improving of manufacturing of hot-extruded pipes from Ni-based alloys	hot extrusion, Ni-based alloys, deformation resistance, pliability, temperature-speed modes, quality of surface	44, 2, 79-84	https://doi.org/10.18280/acsm.440201	Kosmatskiy, Y.I., Lysov, D., Fokin, N., Nikolenko, V. (2020). Improving of manufacturing of hot-extruded pipes from Ni-based alloys. Annales de Chimie - Science des Matériaux, Vol. 44, No. 2, pp. 79-84. https://doi.org/10.18280/acsm.440201
41	Boumehraz, M/A., Mellas, M., Goudjil, K., Boucetta, F.	Study of the aging of a concrete reinforced by alkali resistant glass fiber in the wet environment	aging, sulfate resistant cement (SRC), ARHP glass fiber, durability, concrete	44, 2, 85-90	https://doi.org/10.18280/acsm.440202	Boumehraz, M/A., Mellas, M., Goudjil, K., Boucetta, F. (2020). Study of the aging of a concrete reinforced by alkali resistant glass fiber in the wet environment. Annales de Chimie - Science des Matériaux, Vol. 44, No. 2, pp. 85-90. https://doi.org/10.18280/acsm.440202
42	Subanndi, Agustina, F., Vebrian, Azzahra, R.	Waste paper ash as additives for high strength concrete mix 45 MPa	admixture, additive, rice husk ash, chemical, chemical content of cement	44, 2, 91-96	https://doi.org/10.18280/acsm.440203	Subanndi, Agustina, F., Vebrian, Azzahra, R. (2020). Waste paper ash as additives for high strength concrete mix 45 MPa. Annales de Chimie - Science des Matériaux, Vol. 44, No. 2, pp. 91-96. https://doi.org/10.18280/acsm.440203
43	Luo, H., Ma, F.R., Yang, Q.	Experimental analysis on mechanical performance of recycled concrete made from polypropylene fiber and artificial sand	polypropylene fiber, artificial sand, recycled concrete, compressive strength	44, 2, 97-102	https://doi.org/10.18280/acsm.440204	Luo, H., Ma, F.R., Yang, Q. (2020). Experimental analysis on mechanical performance of recycled concrete made from polypropylene fiber and artificial sand. Annales de Chimie - Science des Matériaux, Vol. 44, No. 2, pp. 97-102. https://doi.org/10.18280/acsm.440204
44	Malhotra, P., Singh, N.K., Tyagi, R.K., Sikarwar, B.S.	Comparative micro structural investigation of Al-SiC-Mg and Al-B4C-Mg particulate metal matrix composite	hybrid composite, stir casting, reinforcement, boron carbide, silicon carbide, magnesium	44, 2, 103-108	https://doi.org/10.18280/acsm.440205	Malhotra, P., Singh, N.K., Tyagi, R.K., Sikarwar, B.S. (2020). Comparative micro structural investigation of Al-SiC-Mg and Al-B4C-Mg particulate metal matrix composite. Annales de Chimie - Science des Matériaux, Vol. 44, No. 2, pp. 103-108. https://doi.org/10.18280/acsm.440205
45	Sahoo, D.K., Mohanty, B.S., Maalika Veetil, A.P.	Evaluation of bond strength and flash mass on friction surfaced deposition of aluminium 6063 over IS 2062 low carbon steel using different mechtrode face	friction surfacing, mechtrode face, micro hardness, ram tensile, bending, FE-SEM, XRD	44, 2, 109-119	https://doi.org/10.18280/acsm.440206	Sahoo, D.K., Mohanty, B.S., Maalika Veetil, A.P. (2020). Evaluation of bond strength and flash mass on friction surfaced deposition of aluminium 6063 over IS 2062 low carbon steel using different mechtrode face. Annales de Chimie - Science des Matériaux, Vol. 44, No. 2, pp. 109-119. https://doi.org/10.18280/acsm.440206
46	Daranfed, W., Guermat, N., Mirouh, K.	Experimental study of precursor concentration the Co3O4 thin films used as solar absorbers	thin film, Co3O4, precursor concentration, spray pyrolysis, XRD, transmittance	44, 2, 121-126	https://doi.org/10.18280/acsm.440207	Daranfed, W., Guermat, N., Mirouh, K. (2020). Experimental study of precursor concentration the Co3O4 thin films used as solar absorbers. Annales de Chimie - Science des Matériaux, Vol. 44, No. 2, pp. 121-126. https://doi.org/10.18280/acsm.440207
47	Sharma, P., Dwivedi, S.P., Dwivedi, V.K.	Physical, mechanical and thermal behaviour of high entropy materials	corrosion behaviour, grain structure, hardness, high entropy alloy, tensile strength	44, 2, 127-132	https://doi.org/10.18280/acsm.440208	Sharma, P., Dwivedi, S.P., Dwivedi, V.K. (2020). Physical, mechanical and thermal behaviour of high entropy materials. Annales de Chimie - Science des Matériaux, Vol. 44, No. 2, pp. 127-132. https://doi.org/10.18280/acsm.440208
48	Meng, F.L., Gao, D.Y., Chen, F.Q., Huang, C.S.	Fatigue performance test and life calculation of fiber-reinforced asphalt concrete	fiber-reinforced asphalt concrete (FRAC), fatigue performance, splitting fatigue test, characteristic parameter of fiber content (FCCP)	44, 2, 133-139	https://doi.org/10.18280/acsm.440209	Meng, F.L., Gao, D.Y., Chen, F.Q., Huang, C.S. (2020). Fatigue performance test and life calculation of fiber-reinforced asphalt concrete. Annales de Chimie - Science des Matériaux, Vol. 44, No. 2, pp. 133-139. https://doi.org/10.18280/acsm.440209
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53	Bouhadjela, F., Bensaad, B., Cheriet, R., Belharizi, M., Belhenini, S.	Contribution to the study of plastic mechanics models of solid-solid contacts	vickers hardness, contact pressure, plastic deformation, elastic deformation, three-dimensional modeling	44, 1, 37-42	https://doi.org/10.18280/acsm.440105	Bouhadjela, F., Bensaad, B., Cheriet, R., Belharizi, M., Belhenini, S. (2020). Contribution to the study of plastic mechanics models of solid-solid contacts. Annales de Chimie - Science des Matériaux, Vol. 44, No. 1, pp. 37-42. https://doi.org/10.18280/acsm.440105
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84	Zhu, J., Zheng, W.Z., Sneed, L.H., Huang, Y., Xu, C.H.	Mechanical properties of plant fibers reinforced alkali-activated slag cementitious material at high temperature	Alkali-Activated Slag Cementitious Material (AASCM), Ground-Granulated Blast-Furnace Slag (GGBFS), high temperature, mechanical properties, plant fiber	43, 4, 249-255	https://doi.org/10.18280/acsm.430408	Zhu, J., Zheng, W.Z., Sneed, L.H., Huang, Y., Xu, C.H. (2019). Mechanical properties of plant fibers reinforced alkali-activated slag cementitious material at high temperature. Annales de Chimie - Science des Matériaux, Vol. 43, No. 4, pp. 249-255. https://doi.org/10.18280/acsm.430408
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86	Rachid, C., Lebon, F., Rosu, I., Mohammed, M.	Numerical study of the surface roughness, thermal conductivity of the contact materials and interstitial fluid convection coefficient effect on the thermal contact conductance	thermal contact conductance, thermal conductivity, convection coefficient, roughness, interstitial fluid	43, 4, 265-271	https://doi.org/10.18280/acsm.430410	Rachid, C., Lebon, F., Rosu, I., Mohammed, M. (2019). Numerical study of the surface roughness, thermal conductivity of the contact materials and interstitial fluid convection coefficient effect on the thermal contact conductance. Annales de Chimie - Science des Matériaux, Vol. 43, No. 4, pp. 265-271. https://doi.org/10.18280/acsm.430410
87	Chaudhury, P., Samantaray, S.	Electro thermal modelling of electrical discharge machining of Be-Cu alloy by varying fraction of energy	finite element simulation, electrical discharge machining, material removal rate, plasma flushing efficiency	43, 4, 273-279	https://doi.org/10.18280/acsm.430411	Chaudhury, P., Samantaray, S. (2019). Electro thermal modelling of electrical discharge machining of Be-Cu alloy by varying fraction of energy. Annales de Chimie - Science des Matériaux, Vol. 43, No. 4, pp. 273-279. https://doi.org/10.18280/acsm.430411
88	Elhadi, B.M., Abdechafik, H., Bachir, G., Aissa, B.H.	Influence of plastic deformation of copper on the behavior of electromagnetic shielding	plastic deformation, electric field, dislocation, shielding, TEM cell, electrical conductivity	43, 3, 135-140	https://doi.org/10.18280/acsm.430301	Elhadi, B.M., Abdechafik, H., Bachir, G., Aissa, B.H. (2019). Influence of plastic deformation of copper on the behavior of electromagnetic shielding. Annales de Chimie - Science des Matériaux, Vol. 43, No. 3, pp. 135-140. https://doi.org/10.18280/acsm.430301
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90	Zheng, M.L., Gao, S.Y., Chen, J.G., Zhang, W., Li, J.N., Chen, B.L.	Impacts of element diffusion on bond breakage of cemented carbide cutter	cemented carbide, 2.25Cr1Mo0.25V, Molecular Dynamics (MD), element diffusion, bond breakage, bonding energy	43, 3, 151-158	https://doi.org/10.18280/acsm.430303	Zheng, M.L., Gao, S.Y., Chen, J.G., Zhang, W., Li, J.N., Chen, B.L. (2019). Impacts of element diffusion on bond breakage of cemented carbide cutter. Annales de Chimie - Science des Matériaux, Vol. 43, No. 3, pp. 151-158. https://doi.org/10.18280/acsm.430303
91	Zouzou, C., Keddam, M.	Boriding kinetics of FeB and Fe_2B layers on AISI M2 steel by the integral diffusion model	boronizing, borides, incubation times, fick's laws, integral diffusion model	43, 3, 159-164	https://doi.org/10.18280/acsm.430304	Zouzou, C., Keddam, M. (2019). Boriding kinetics of FeB and Fe_2B layers on AISI M2 steel by the integral diffusion model. Annales de Chimie - Science des Matériaux, Vol. 43, No. 3, pp. 159-164. https://doi.org/10.18280/acsm.430304
92	Ma, Y.H., Ding, S.L., Xin, D.S., Ma, F., Xia, R.T.	Optimization of hot-pressing technique for genuine full-grain leather made of natural rubber latex	natural rubber latex, genuine full-grain leather (GFGL), hot-pressing technique, physical-mechanical properties	43, 3, 165-172	https://doi.org/10.18280/acsm.430305	Ma, Y.H., Ding, S.L., Xin, D.S., Ma, F., Xia, R.T. (2019). Optimization of hot-pressing technique for genuine full-grain leather made of natural rubber latex. Annales de Chimie - Science des Matériaux, Vol. 43, No. 3, pp. 165-172. https://doi.org/10.18280/acsm.430305
93	Mohapatra, S., Sarangi, H., Mohanty, U.K., Rath, P.	Certain aspects of particle distribution in castings formed in rotating moulds	dispersal of particles, centrifugal force, viscosity profile, temperature profile, particle-rich-zone, graded properties, analytical findings	43, 3, 173-181	https://doi.org/10.18280/acsm.430306	Mohapatra, S., Sarangi, H., Mohanty, U.K., Rath, P. (2019). Certain aspects of particle distribution in castings formed in rotating moulds. Annales de Chimie - Science des Matériaux, Vol. 43, No. 3, pp. 173-181. https://doi.org/10.18280/acsm.430306
94	Zhong, R.C., Peng, Z.B., Jiang, H.D.	Design of diamond drill bits with primary and secondary abrasives	primary and secondary abrasives, impregnated diamond drill bit, micron diamond powder, drilling efficiency, service life	43, 3, 183-188	https://doi.org/10.18280/acsm.430307	Zhong, R.C., Peng, Z.B., Jiang, H.D. (2019). Design of diamond drill bits with primary and secondary abrasives. Annales de Chimie - Science des Matériaux, Vol. 43, No. 3, pp. 183-188. https://doi.org/10.18280/acsm.430307
95	Reddy Bellum, R., Muniraj, K., Madduru, S.R.C.	Empirical relationships on mechanical properties of class-f fly ash and GGBS based geopolymer concrete	fly ash, GGBS, modulus of elasticity, geopolymer concrete, ambient curing	43, 3, 189-197	https://doi.org/10.18280/acsm.430308	Reddy Bellum, R., Muniraj, K., Madduru, S.R.C. (2019). Empirical relationships on mechanical properties of class-f fly ash and GGBS based geopolymer concrete. Annales de Chimie - Science des Matériaux, Vol. 43, No. 3, pp. 189-197. https://doi.org/10.18280/acsm.430308

96	Hadjadj, S., Boutarfaia, A., Zenkhri, L.	Structural and dielectric study of a PLNZNT ceramic material doped with chromium	perovskites, doped PZT, dielectric, XRD, dielectric response	43, 2, 69-74	https://doi.org/10.18280/acsm.430201	Hadjadj, S., Boutarfaia, A., Zenkhri, L. (2019). Structural and dielectric study of a PLNZNT ceramic material doped with chromium. Annales de Chimie: Science des Materiaux, Vol. 43, No. 2, pp. 69-74. https://doi.org/10.18280/acsm.430201
97	Sonali Sri Durga, C., Ruben, N.	Assessment of various self healing materials to enhance the durability of concrete structures	bio-concrete, concrete properties, cracking, eco-friendly, mechanisms, self healing	43, 2, 75-79	https://doi.org/10.18280/acsm.430202	Sonali Sri Durga, C., Ruben, N. (2019). Assessment of various self healing materials to enhance the durability of concrete structures. Annales de Chimie: Science des Materiaux, Vol. 43, No. 2, pp. 75-79. https://doi.org/10.18280/acsm.430202
98	Chen, F.Q., Huang, C.S., Wang, J., Gao, D.Y.	Experimental analysis on flexural-tensile performance of polyester fiber asphalt concrete	polyester fiber asphalt concrete, flexural-tensile strength, fiber aspect ratio, fiber volume ratio, fiber content feature parameter (FCFP)	43, 2, 81-88	https://doi.org/10.18280/acsm.430203	Chen, F.Q., Huang, C.S., Wang, J., Gao, D.Y. (2019). Experimental analysis on flexural-tensile performance of polyester fiber asphalt concrete. Annales de Chimie: Science des Materiaux, Vol. 43, No. 2, pp. 81-88. https://doi.org/10.18280/acsm.430203
99	Zheng, B., Sui, J.L., Tan, Y.H., Zhang, L.L.	Thermal performance analysis of exterior wall materials of huizhou residential buildings adapted to local climate	climatic environment, adaptability, huizhou residential buildings, structure of exterior wall material, thermal performance	43, 2, 89-94	https://doi.org/10.18280/acsm.430204	Zheng, B., Sui, J.L., Tan, Y.H., Zhang, L.L. (2019). Thermal performance analysis of exterior wall materials of huizhou residential buildings adapted to local climate. Annales de Chimie: Science des Materiaux, Vol. 43, No. 2, pp. 89-94. https://doi.org/10.18280/acsm.430204
100	Aday, A.J.	Analysis of springback behavior in steel and aluminum sheets using FEM	finite element analysis, sheet metal, springback, die profile radius	43, 2, 95-98	https://doi.org/10.18280/acsm.430205	Aday, A.J. (2019). Analysis of springback behavior in steel and aluminum sheets using FEM. Annales de Chimie: Science des Materiaux, Vol. 43, No. 2, pp. 95-98. https://doi.org/10.18280/acsm.430205
101	Venkatesh, C., Chand, M.S.R., Nerella, R.	A state of the art on red mud as a substitutional cementitious material	substitutional cementitious material, red mud, bayer process, microstructure characterization, chloride ions diffusion, compressive strength	43, 2, 99-106	https://doi.org/10.18280/acsm.430206	Venkatesh, C., Chand, M.S.R., Nerella, R. (2019). A state of the art on red mud as a substitutional cementitious material. Annales de Chimie: Science des Materiaux, Vol. 43, No. 2, pp. 99-106. https://doi.org/10.18280/acsm.430206
102	Zhang, J.H., Wang, S.Q., Liu, L.Y., Zhang, X., Bi, B., Fu, D., Li, Z.Y.	Combined treatment of coking wastewater with N-Ce-TiO_2 and modified inferior coal char	N-Ce-TiO_2, nanomaterials, coking wastewater, photocatalysis, modified char, biomass	43, 2, 107-114	https://doi.org/10.18280/acsm.430207	Zhang, J.H., Wang, S.Q., Liu, L.Y., Zhang, X., Bi, B., Fu, D., Li, Z.Y. (2019). Combined treatment of coking wastewater with N-Ce-TiO_2 and modified inferior coal char. Annales de Chimie: Science des Materiaux, Vol. 43, No. 2, pp. 107-114. https://doi.org/10.18280/acsm.430207
103	Singh, A., Yadav, H.L., Kumar, S.	Effect of temperature on fracture parameters of aluminum alloy Al 6061: A numerical study	crack mouth opening displacement, crack tip opening displacement, stress intensity factor, ANSYS, side edge notch bend specimen	43, 2, 115-118	https://doi.org/10.18280/acsm.430208	Singh, A., Yadav, H.L., Kumar, S. (2019). Effect of temperature on fracture parameters of aluminum alloy Al 6061: A numerical study. Annales de Chimie: Science des Materiaux, Vol. 43, No. 2, pp. 115-118. https://doi.org/10.18280/acsm.430208
104	Peng, X.L., Sun, C., Cao, Y.B.	Tensile properties of remolded loess and undisturbed loess	remolded loess, undisturbed loess, water content, tensile strength	43, 2, 119-123	https://doi.org/10.18280/acsm.430209	Peng, X.L., Sun, C., Cao, Y.B. (2019). Tensile properties of remolded loess and undisturbed loess. Annales de Chimie: Science des Materiaux, Vol. 43, No. 2, pp. 119-123. https://doi.org/10.18280/acsm.430209
105	Nurulla, S., Mustafa, S., Reddy, Y.B.S.	Investigation on mechanical properties of lightweight concrete partially replacing sawdust to fine aggregate	environment, mechanical properties, saw-dust, lightweight concrete, eco-friendly	43, 2, 125-128	https://doi.org/10.18280/acsm.430210	Nurulla, S., Mustafa, S., Reddy, Y.B.S. (2019). Investigation on mechanical properties of lightweight concrete partially replacing sawdust to fine aggregate. Annales de Chimie: Science des Materiaux, Vol. 43, No. 2, pp. 125-128. https://doi.org/10.18280/acsm.430210
106	Verma, R., Jaiswal, A., Avchar, A.	A numerical method approach for analyzing the effects of joint orientation on stability of open-stope in metalliferous mines	metal mining, stope, joint orientation, numerical modeling, finite difference, open stoping	43, 2, 129-134	https://doi.org/10.18280/acsm.430211	Verma, R., Jaiswal, A., Avchar, A. (2019). A numerical method approach for analyzing the effects of joint orientation on stability of open-stope in metalliferous mines. Annales de Chimie: Science des Materiaux, Vol 43, No. 2, pp. 129-134. https://doi.org/10.18280/acsm.430211
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108	Benarrache, S., Benchatti, T., Benhorma, H.A.	Formation and dissolution of carbides and nitrides in the weld seam of X70 steel by the effects of heat treatments	HSLA steels, X70, seam, Weld Metal Zone WMZ, the heat affected zone HAZ, X-ray diffraction, carbide and nitride, diffusion, backscatter	43, 1, 11-16	https://doi.org/10.18280/acsm.430102	Benarrache, S., Benchatti, T., Benhorma, H.A. (2019). Formation and dissolution of carbides and nitrides in the weld seam of X70 steel by the effects of heat treatments. Annales de Chimie: Science des Materiaux, Vol. 43, No. 1, pp. 11-16. https://doi.org/10.18280/acsm.430102
109	Du, E.X., Wang, Y., Sun, J.H., Yang, S.Q.	Experimental analysis on ductility of polyvinyl alcohol fibre reinforced concrete frame joints	Polyvinyl Alcohol (PVA) fibre reinforced concrete, frame joint, ductility, energy dissipation, hysteresis loop	43, 1, 17-22	https://doi.org/10.18280/acsm.430103	Du, E.X., Wang, Y., Sun, J.H., Yang, S.Q. (2019). Experimental analysis on ductility of polyvinyl alcohol fibre reinforced concrete frame joints. Annales de Chimie: Science des Materiaux, Vol. 43, No. 1, pp. 17-22. https://doi.org/10.18280/acsm.430103
110	Kulkarni, H.B., Kulkarni, R.M., Nadakatti, M.M., Gokak, G.D., Deshpande, A.S.	Thermal conductivity enhancement by Al_2O_3@Cu, core@shell nanoparticle suspensions in nanofluid coolant	synthesis, alumina, hamilton crosser, heat dissipation, metal-cutting nanotechnology, machining	43, 1, 23-28	https://doi.org/10.18280/acsm.430104	Kulkarni, H.B., Kulkarni, R.M., Nadakatti, M.M., Gokak, G.D., Deshpande, A.S. (2019). Thermal conductivity enhancement by Al_2O_3@Cu, core@shell nanoparticle suspensions in nanofluid coolant. Annales de Chimie: Science des Materiaux, Vol. 43, No. 1, pp. 23-28. https://doi.org/10.18280/acsm.430104
111	Sharma, A., Mishra, A.K., Choudhary, B.S.	Impact of blast design parameters on blasted muckpile profile in building stone quarries	stone quarries, drill-blast design parameters, muck profile, throw, drop, lateral spread	43, 1, 29-36	https://doi.org/10.18280/acsm.430105	Sharma, A., Mishra, A.K., Choudhary, B.S. (2019). Impact of blast design parameters on blasted muckpile profile in building stone quarries. Annales de Chimie: Science des Materiaux, Vol. 43, No. 1, pp. 29-36. https://doi.org/10.18280/acsm.430105
112	Ji, J., Liu, X.S., Tan, S.Y., Wang, M.N., Ni, W.	Preparation and performance analysis of foam-concrete sound absorbing material prepared purely from solid wastes	foam-concrete, sound absorption performance, industrial solid waste, compressive strength	43, 1, 37-42	https://doi.org/10.18280/acsm.430106	Ji, J., Liu, X.S., Tan, S.Y., Wang, M.N., Ni, W. (2019). Preparation and performance analysis of foam-concrete sound absorbing material prepared purely from solid wastes. Annales de Chimie: Science des Materiaux, Vol. 43, No. 1, pp. 37-42. https://doi.org/10.18280/acsm.430106
113	Bayareh, M., Nourbakhsh, A., Rouzbahani, F., Tafreshi, M.K.	Simulation of sand particles flow using a weakly compressible smoothed particle hydrodynamics method (WCSPH)	Smoothed Particle Hydrodynamics (SPH), non-newtonian fluid, weakly compressibility, sandy beach, multi phase flow, interpolation particle	43, 1, 43-51	https://doi.org/10.18280/acsm.430107	Bayareh, M., Nourbakhsh, A., Rouzbahani, F., Tafreshi, M.K. (2019). Simulation of sand particles flow using a weakly compressible smoothed particle hydrodynamics method (WCSPH). Annales de Chimie: Science des Materiaux, Vol. 43, No. 1, pp. 43-51. https://doi.org/10.18280/acsm.430107
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118	Liu, Y., Zhan, M., Weng, G.Y., Wang, S.L	Semi-active optimization control of space grid model with self-reset piezoelectric friction damper	Genetic Algorithm (GA), optimal layout, Piezoelectric Friction Damper (PFD), semi-active control	42, 4, 503-515	https://doi.org/10.3166/ ACSM.42.503-515	Liu, Y., Zhan, M., Weng, G.Y., Wang, S.L. (2018). Semi-active optimization control of space grid model with self-reset piezoelectric friction damper. Annales de Chimie - Science des Matériaux, Vol. 42, No. 4, pp. 503-515. https://doi.org/10.3166/ ACSM.42.503-515
119	Vizzari, D., Puntorieri, P., Praticò, F., Fiamma, V., Barbaro, G.	Energy harvesting from solar and permeable pavements: A feasibility study	solar pavement, drainability, rainfall	42, 4, 517-534	https://doi.org/10.3166/ACSM.42.517-534	Vizzari, D., Puntorieri, P., Praticò, F., Fiamma, V., Barbaro, G. (2018). Energy harvesting from solar and permeable pavements: A feasibility study. Annales de Chimie - Science des Matériaux, Vol. 42, No. 4, pp. 517-534. https://doi.org/10.3166/ACSM.42.517-534
120	Peng, X.L., Fan, W., Sun, C., Hao, G., Zhang, Y.	Physical and mechanical properties of interface transition zone between loess and paleosol	interface transition zone, loess paleosol, large shear test, shear characteristics	42, 4, 535-545	https://doi.org/10.3166/ACSM.42.535-545	Peng, X.L., Fan, W., Sun, C., Hao, G., Zhang, Y. (2018). Physical and mechanical properties of interface transition zone between loess and paleosol. Annales de Chimie - Science des Matériaux, Vol. 42, No. 4, pp. 535-545. https://doi.org/10.3166/ACSM.42.535-545
121	Dharmana, T., Kola, K.R., Bonnada, N.N.	Nano SiO_2 catalyzed synthesis of Imidazo[1,2-a]pyridines	nano SiO_2, microwave irradiation, imidazo [1,2-A] pyridines, phenacyl bromide	42, 4, 547-553	https://doi.org/10.3166/ACSM.42.547-553	Dharmana, T., Kola, K.R., Bonnada, N.N. (2018). Nano SiO_2 catalyzed synthesis of Imidazo[1,2-a]pyridines. Annales de Chimie - Science des Matériaux, Vol. 42, No. 4, pp. 547-553. https://doi.org/10.3166/ACSM.42.547-553
122	Murugan, S.S.	Processing and characterisation of LM30 alloy + graphite reinforced composite through gravity and centrifugal casting	centrifugal casting, dendritic structure, FGCMs, gravity casting	42, 4, 555-564	https://doi.org/10.3166/ACSM.42.555-564	Murugan, S.S. (2018). Processing and characterisation of LM30 alloy + graphite reinforced composite through gravity and centrifugal casting. Annales de Chimie - Science des Maté riaux, Vol. 42, No. 4, pp. 555-564. https://doi.org/10.3166/ACSM.42.555-564
123	Lou, P.J., Liang, S.L., Feng, M.M., Bu, Y.S., Huang, X.Y.	Load relief rupture mechanism based on particle flow rocklike material	particle flow, unload, mesoscopic rupture mechanism	42, 4, 565-576	https://doi.org/10.3166/ACSM.42.565-576	Lou, P.J., Liang, S.L., Feng, M.M., Bu, Y.S., Huang, X.Y. (2018). Load relief rupture mechanism based on particle flow rocklike material. Annales de Chimie - Science des Matériaux, Vol. 42, No. 4, pp. 565-576. https://doi.org/10.3166/ACSM.42.565-576
124	Jian, Q.P.	Improvement of radial basis function neural network with accelerated particle swarm optimization for corrosion rate prediction of 3C steel in seawater environment	Radial Basis Function Neural Network (RBFNN), Seawater Environment, Accelerated Particle Swarm Optimization (APSO), prediction model, corrosion rate	42, 4, 577-587	https://doi.org/10.3166/ACSM.42.577-587	Jian, Q.P. (2018). Improvement of radial basis function neural network with accelerated particle swarm optimization for corrosion rate prediction of 3C steel in seawater environment. Annales de Chimie - Science des Matériaux, Vol. 42, No. 4, pp. 577-587. https://doi.org/10.3166/ACSM.42.577-587
125	Nithish Reddy, P., Murugesan, K., Koushik, V.	Numerical analysis of MHD double diffusive nano-fluid convection in a cavity using FEM	double diffusive convection, magnetic field, nano fluid, and cavity	42, 4, 589-612	https://doi.org/10.3166/ACSM.42.589-612	Nithish Reddy, P., Murugesan, K., Koushik, V. (2018). Numerical analysis of MHD double diffusive nano-fluid convection in a cavity using FEM. Annales de Chimie - Science des Matériaux, Vol. 42, No. 4, pp. 589-612. https://doi.org/10.3166/ACSM.42.589-612
126	Shiriny, A., Bayareh, M.	Numerical study of heat transfer and pressure drop in a fuel cell with porous material	fuel cell, porous material, heat transfer, pressure drop	42, 3, 323-334	https://doi.org/10.3166/ACSM.42.323-334	Shiriny, A., Bayareh, M. (2018). Numerical study of heat transfer and pressure drop in a fuel cell with porous material. Annales de Chimie - Science des Matériaux, Vol. 42, No. 3, pp. 323-334. https://doi.org/10.3166/ACSM.42.323-334
127	Ferrah, A., Bouaziz, M.N.	Modeling of double diffusion with MHD on an inclined flat plate solar captor with non-uniform boundary conditions. Bouyancy ratio, Prandtl, Schmidt and Eckert numbers effects	MHD, nombres de schmidt et d' eckert, reaction chimique, rayonnement, transferts de chaleur et de masse, conditions aux limites	42, 3, 335-346	https://doi.org/10.3166/ACSM.42.335-346	Ferrah, A., Bouaziz, M.N. (2018). Modeling of double diffusion with MHD on an inclined flat plate solar captor with non-uniform boundary conditions. Bouyancy ratio, Prandtl, Schmidt and Eckert numbers effects. Annales de Chimie - Science des Matériaux, Vol. 42, No. 3, pp. 335-346. https://doi.org/10.3166/ACSM.42.335-346
128	Zhang, J.T., Cai, D., Wang, T.K., Hu, Q., Li, K.M.	Experimental analysis on the effects of artificial marble waste powder on concrete performance	artificial marble waste powder, concrete, water consumption, working performance, mechanical properties	42, 3, 347-362	https://doi.org/10.3166/ACSM.42.347-362	Zhang, J.T., Cai, D., Wang, T.K., Hu, Q., Li, K.M. (2018). Experimental analysis on the effects of artificial marble waste powder on concrete performance. Annales de Chimie - Science des Matériaux, Vol. 42, No. 3, pp. 347-362. https://doi.org/10.3166/ACSM.42.347-362
129	Chauhan, P.R., Kumar, R.	A comprehensive review on heat transfer enhancement and pressure drop characteristics of nanofluid flow through micro-channels	nanofluid, micro-channel, heat transfer enhancement, pressure drop	42, 3, 363-385	https://doi.org/10.3166/ACSM.42.363-385	Chauhan, P.R., Kumar, R. (2018). A comprehensive review on heat transfer enhancement and pressure drop characteristics of nanofluid flow through micro-channels. Annales de Chimie - Science des Matériaux, Vol. 42, No. 3, pp. 363-385. https://doi.org/10.3166/ACSM.42.363-385
130	Huang, C.S., Zhang, Z.F., Dao, D.Y.	Thermal stress restrained specimen test on fiber enhanced asphalt concrete and thermal stress calculation models	road engineering, fiber reinforced asphalt concrete, cracking resistance performance, thermal stress restrained specimen test, fiber content characteristic parameter	42, 3, 387-403	https://doi.org/10.3166/ACSM.42.387-403	Huang, C.S., Zhang, Z.F., Dao, D.Y. (2018). Thermal stress restrained specimen test on fiber enhanced asphalt concrete and thermal stress calculation models. Annales de Chimie - Science des Matériaux, Vol. 42, No. 3, pp. 387-403. https://doi.org/10.3166/ACSM.42.387-403
131	Italiano, C., Pino, L., Laganà, M., Vita, A.	Ceramic monolith- and foam-structured catalysts via in-situ combustion deposition for energetic applications	monolith, open-cell foam, methanation, reforming, structured catalysts	42, 3, 405-418	https://doi.org/10.3166/ACSM.42.405-418	Italiano, C., Pino, L., Laganà, M., Vita, A. (2018). Ceramic monolith- and foam-structured catalysts via in-situ combustion deposition for energetic applications. Annales de Chimie - Science des Matériaux, Vol. 42, No. 3, pp. 405-418. https://doi.org/10.3166/ACSM.42.405-418
132	Zheng, L., Zhou, X., Zhang, X.Y.	Effects of calcination temperature and curing time on bending strength and microstructure of hydrothermally treated mordenite products	mordenite, hydrothermal treatment, bending strength, microstructure, self-humidity control	42, 3, 419-427	https://doi.org/10.3166/ACSM.42.419-427	Zheng, L., Zhou, X., Zhang, X.Y. (2018). Effects of calcination temperature and curing time on bending strength and microstructure of hydrothermally treated mordenite products. Annales de Chimie - Science des Matériaux, Vol. 42, No. 3, pp. 419-427. https://doi.org/10.3166/ACSM.42.419-427
133	Michele, B., Fortunato, C., Vincenzo, S.S.	Fatigue life investigation on wind blades	composite materials, wind blades damaging, fatigue failure	42, 3, 429-440	https://doi.org/10.3166/ACSM.42.429-440	Michele, B., Fortunato, C., Vincenzo, S.S. (2018). Fatigue life investigation on wind blades. Annales de Chimie - Science des Matériaux, Vol. 42, No. 3, pp. 429-440. https://doi.org/10.3166/ACSM.42.429-440

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136	Souad, T., Mounir, Z., Abdelwahab, B., Salah, H.	Numerical simulation EF/VOF to study the influence of the surface condition of the formation of the slats of a nickel deposit produced by plasma spraying	finite element, formation of splats, numerical simulation, plasma spraying, volume of fluid (VOF)	42, 2, 165-180	https://doi.org/10.3166/ACSM.42.165-180	Souad, T., Mounir, Z., Abdelwahab, B., Salah, H. (2018). Numerical simulation EF/VOF to study the influence of the surface condition of the formation of the slats of a nickel deposit produced by plasma spraying. Annales de Chimie - Science des Matériaux, Vol. 42, No. 2, pp. 165-180. https://doi.org/10.3166/ACSM.42.165-180
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138	Wang, J.L., Zhang, S.H., Peng, F.F.	Influence mechanism of hard brittle grits on the drilling performance of diamond bit	diamond bit, hard brittle grits, hard rock drilling, wear morphologies	42, 2, 209-220	https://doi.org/10.3166/ACSM.42.209-220	Wang, J.L., Zhang, S.H., Peng, F.F. (2018). Influence mechanism of hard brittle grits on the drilling performance of diamond bit. Annales de Chimie - Science des Matériaux, Vol. 42, No. 2, pp. 209-220. https://doi.org/10.3166/ACSM.42.209-220
139	Saouli, F., Sriti, F.Z., Abba, M., Necira, Z., Menasra, H., Beddari, A.	Structural and dielectric properties of (Bi) modified PLSZT ceramics	ferroelectric, microstructure, piezoelectric ceramics, dielectric properties	42, 2, 221-231	https://doi.org/10.3166/ACSM.42.221-231	Saouli, F., Sriti, F.Z., Abba, M., Necira, Z., Menasra, H., Beddari, A. (2018). Structural and dielectric properties of (Bi) modified PLSZT ceramics. Annales de Chimie - Science des Matériaux, Vol. 42, No. 2, pp. 221-231. https://doi.org/10.3166/ACSM.42.221-231
140	Zuo, H.L., Li, Y.S., Di, J., Guo, N.	Lateral performance of timber shear walls reinforced by prestressed diagonal cross bars	diagonal cross-bar, prestress, monotonic loading test, lateral performance, deformation behavior	42, 2, 233-243	https://doi.org/10.3166/ACSM.42.233-243	Zuo, H.L., Li, Y.S., Di, J., Guo, N. (2018). Lateral performance of timber shear walls reinforced by prestressed diagonal cross bars. Annales de Chimie - Science des Maté riaux, Vol. 42, No. 2, pp. 233-243. https://doi.org/10.3166/ACSM.42.233-243
141	Sotehi, N., Tabet, I., Chaker, A.	Combined experimental and numerical characterization of thermal properties of lightweight concretes used in construction	lightweight concrete, construction materials, thermal properties, heat and mass transfer	42, 2, 245-258	https://doi.org/10.3166/ACSM.42.245-258	Sotehi, N., Tabet, I., Chaker, A. (2018). Combined experimental and numerical characterization of thermal properties of lightweight concretes used in construction. Annales de Chimie - Science des Matériaux, Vol. 42, No. 2, pp. 245-258. https://doi.org/10.3166/ACSM.42.245-258
142	Qin, H.Y., Ouyang, Z.H., Ti, Z.Y., Zhang, F.	Experimental analysis on the optimal proportion of paste filler for a coal mine in China	filler strength, orthogonal test, multivariate statistical analysis	42, 2, 259-268	https://doi.org/10.3166/ACMS.42.259-268	Qin, H.Y., Ouyang, Z.H., Ti, Z.Y., Zhang, F. (2018). Experimental analysis on the optimal proportion of paste filler for a coal mine in China. Annales de Chimie - Science des Mat ériaux, Vol. 42, No. 2, pp. 259-268. https://doi.org/10.3166/ACMS.42.259-268
143	Saud, A.N., Majdi, H.S., Saud, S.N.	Optimization of ceramic thermal insulation behavior using the genetic algorithm	thermal insulation, semi-dry pressing, alumina, genetic algorithm	42, 2, 269-279	https://doi.org/10.3166/ACSM.42.269-279	Saud, A.N., Majdi, H.S., Saud, S.N. (2018). Optimization of ceramic thermal insulation behavior using the genetic algorithm. Annales de Chimie - Science des Matériaux, Vol. 42, No. 2, pp. 269-279. https://doi.org/10.3166/ACSM.42.269-279
144	Golneshan, A.A., Nemati, H.	Evaluation of six gas turbine evaporative cooling for Fars-Iran	evaporative cooler, gas turbine, humidification, ideality coefficient	42, 2, 281-301	https://doi.org/10.3166/ACSM.42.281-301	Golneshan, A.A., Nemati, H. (2018). Evaluation of six gas turbine evaporative cooling for Fars-Iran. Annales de Chimie - Science des Matériaux, Vol. 42, No. 2, pp. 281-301. https://doi.org/10.3166/ACSM.42.281-301
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146	Swain, K., Parida, S.K., Dash, G.C.	MHD flow of viscoelastic nanofluid over a stretching sheet in a porous medium with heat source and chemical reaction	MHD, viscoelastic, nanofluid, chemical reaction, heat source/sink	42, 1, 7-21	https://doi.org/10.3166/ACSM.42.7-21	Swain, K., Parida, S.K., Dash, G.C. (2018). MHD flow of viscoelastic nanofluid over a stretching sheet in a porous medium with heat source and chemical reaction. Annales de Chimie - Science des Matériaux, Vol. 42, No. 1, pp. 7-21.https://doi.org/10.3166/ACSM.42.7-21
147	Komolafe, C.A., Waheed, M.A.	Design and fabrication of a forced convection solar dryer integrated with heat storage materials	drying, solar dryer, forced convection, cocoa beans, heat storage materials	42, 1, 23-39	https://doi.org/10.3166/ACSM.42.23-39	Komolafe, C.A., Waheed, M.A. (2018). Design and fabrication of a forced convection solar dryer integrated with heat storage materials. Annales de Chimie - Science des Matériaux, Vol. 42, No. 1, pp. 23-39. https://doi.org/10.3166/ACSM.42.23-39
148	Qiu, C.J., Wang, S., Liu, H., Huang, J.	In-situ pull-out tests on soil-reinforcement interface properties of reinforced soil slopes	reinforced soil slope, geogrid, in-situ pull-out test, Soil-Reinforcement Interface (SRI), S-curve	42, 1, 41-56	https://doi.org/10.3166/ACSM.42.41-56	Qiu, C.J., Wang, S., Liu, H., Huang, J. (2018). In-situ pull-out tests on soil-reinforcement interface properties of reinforced soil slopes. Annales de Chimie - Science des Matériaux, Vol. 42, No. 1, pp. 41-56. https://doi.org/10.3166/ACSM.42.41-56
149	Mamatha E., Reddy C.S., Sharma R.	Effects of viscosity variation and thermal effects in squeeze films	squeeze film, reynolds equation, journal bearing, parallel and circular plates	42, 1, 57-74	https://doi.org/10.3166/ACSM.42.57-74	Mamatha, E., Reddy, C.S., Sharma, R. (2018). Effects of viscosity variation and thermal effects in squeeze films. Annales de Chimie - Science des Matériaux, Vol. 42, No. 1, pp. 57-74. https://doi.org/10.3166/ACSM.42.57-74
150	Yang, P.Y., Wu, X.E., Chen, J.H.	Effect of rock mass intactness on tunnel safety and stability in blasting excavation	hydropower plant, pressure diversion tunnel, numerical simulation, the intactness index, blasting vibration velocity, acoustic wave velocity	42, 1, 75-101	https://doi.org/10.3166/ACSM.42.75-101	Yang, P.Y., Wu, X.E., Chen, J.H. (2018). Effect of rock mass intactness on tunnel safety and stability in blasting excavation. Annales de Chimie - Science des Matériaux, Vol. 42, No. 1, pp. 75-101. https://doi.org/10.3166/ACSM.42.75-101
151	Vandrangi, S.K., Emani, S., Sharma, K.V., Velidi, G.	Computational analysis to determine the heat transfer coefficients for SiO_2/60EGW and SiO_2/40EGW based nano-fluids	heat transfer coefficient, nanofluids, CFD, heat transfer enhancement	42, 1, 103-114	https://doi.org/10.3166/ACSM.42.103-114	Vandrangi, S.K., Emani, S., Sharma, K.V., Velidi, G. (2018). Computational analysis to determine the heat transfer coefficients for SiO_2/60EGW and SiO_2/40EGW based nano-fluids. Annales de Chimie - Science des Matériaux, Vol. 42, No. 1, pp. 103-114. https://doi.org/10.3166/ACSM.42.103-114
152	Maati A., Ouakdi E.H., Tabourot L., Balland P., Demouche M.	Modelling of the thermomechanical behaviour of FCC metals under various conditions	dislocation density, dynamic recovery, strain hardening, subgrain size, thermomechanical behaviour	42, 1, 115-127	https://doi.org/10.3166/ACSM.42.115-127	Maati A., Ouakdi E.H., Tabourot L., Balland P., Demouche M. (2018). Modelling of the thermomechanical behaviour of FCC metals under various conditions. Annales de Chimie - Science des Matériaux, Vol. 42, No. 1, pp. 115-127. https://doi.org/10.3166/ACSM.42.115-127

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155	Agrawal, H., Mishra, A.K.	Evolution of digital detonators as an intelligent tool for control blasting in Indian mines	electronic detonators, digital detonators, delay time accuracy, blasting	41, 3-4, 157-171	https://doi.org/10.3166/ACSM.41.157-171	Agrawal, H., Mishra, A.K. (2017). Evolution of digital detonators as an intelligent tool for control blasting in Indian mines. Annales de Chimie - Science des Matériaux, Vol. 41, No. 3-4, pp. 157-171. https://doi.org/10.3166/ACSM.41.157-171
156	Nawal, A., Redouane, B., Sumeya, B., Abderrahim, C.B.	Promotional effect of iron on the activity of TiO_2 in the production of adipic acid	oxidation, cyclohexene, adipic acid, iron, titania	41, 3-4, 173-188	https://doi.org/10.3166/ACSM.41.173-188	Nawal, A., Redouane, B., Sumeya, B., Abderrahim, C.B. (2017). Promotional effect of iron on the activity of TiO_2 in the production of adipic acid. Annales de Chimie - Science des Matériaux, Vol. 41, No. 3-4, pp. 173-188. https://doi.org/10.3166/ACSM.41.173-188
157	Ou, X.D., Pan, X., Hou, K.W., Yin, X.T.	Experiment and mechanism study on microbial improvement of dredger fill	microbial improvement, hydraulic fill, triaxial shear test, osmotic coefficient	41, 3-4, 189-208	https://doi.org/10.3166/ACSM.41.189-208	Ou, X.D., Pan, X., Hou, K.W., Yin, X.T. (2017). Experiment and mechanism study on microbial improvement of dredger fill. Annales de Chimie - Science des Matériaux, Vol. 41, No. 3-4, pp. 189-208. https://doi.org/10.3166/ACSM.41.189-208
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161	Abderrahmane, H., Brahim, N., Abdelfatah, B., Noueredine, A.M.	Laminar natural convection of power-law fluid in a differentially heated inclined square cavity	natural convection, square cavity, inclination angle, power-law fluid, prandtl number	41, 3-4, 261-281	https://doi.org/10.3166/ACSM.41.261-281	Abderrahmane, H., Brahim, N., Abdelfatah, B., Noueredine, A.M. (2017). Laminar natural convection of power-law fluid in a differentially heated inclined square cavity. Annales de Chimie - Science des Matériaux, Vol. 41, No. 3-4, pp. 261-281. https://doi.org/10.3166/ACSM.41.261-281
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167	Kanojiya, N.C., Shahare, A.S., Sambare, R., Sengar, K.	Differentiate between two comparative Nano fluids for enhancing the heat transfer coefficient inside the heat exchanger using inserts	heat exchangers, titanium oxide & copper oxide nanoparticles, nanofluids, heat transfer enhancement, inserts	41, 1-2, 51-60	https://doi.org/10.3166/ACSM.41.51-60	Kanojiya, N.C., Shahare, A.S., Sambare, R., Sengar, K. (2017). Differentiate between two comparative Nano fluids for enhancing the heat transfer coefficient inside the heat exchanger using inserts. Annales de Chimie - Science des Matériaux, Vol. 41, No. 1-2, pp. 51-60. https://doi.org/10.3166/ACSM.41.51-60
168	Zhang, X.G., Chen, Z.X., Yi, N.P.	Improvement of high-liquid limit soil in the subgrade of mine roadway	mine road, subgrade, high liquid limit soil, admixture, improvement test	41, 1-2, 61-74	https://doi.org/10.3166/ACSM.41.61-74	Zhang, X.G., Chen, Z.X., Yi, N.P. (2017). Improvement of high-liquid limit soil in the subgrade of mine roadway. Annales de Chimie - Science des Matériaux, Vol. 41, No. 1-2, pp. 61-74. https://doi.org/10.3166/ACSM.41.61-74
169	Kumar, V., Prasad, L.	Experimental analysis of heat transfer and friction for three sides roughened solar air heater	concave dimple, relative dimple pitch, relative dimple height, relative dimple depth, nusselt number, friction factor	41, 1-2, 75-107	https://doi.org/10.3166/ACSM.41.75-107	Kumar, V., Prasad, L. (2017). Experimental analysis of heat transfer and friction for three sides roughened solar air heater. Annales de Chimie - Science des Matériaux, Vol. 41, No. 1-2, pp. 75-107. https://doi.org/10.3166/ACSM.41.75-107
170	Kkaled, C., Ahmed, S., Sahli, S.	Immersed borders approach for fluid-structure interaction	generalized finite element method, mobile interfaces, incompressible flows	41, 1-2, 109-126	https://doi.org/10.3166/ACSM.41.109-126	KKkaled, C., Ahmed, S., Sahli, S. (2017). Immersed borders approach for fluid-structure interaction. Annales de Chimie - Science des Matériaux, Vol. 41, No. 1-2, pp. 109-126. https://doi.org/10.3166/ACSM.41.109-126
171	Zhao, Y.S., Li, P., Yin, Q., Wang, T.	Analysis on structural design and experimental effect of two kinds of hollow-through DTH hammer reverse circulation bits	reverse circulation bit, hollow-through DTH hammer reverse circulation bit, slit-type inner nozzle structure, the double-row inner nozzle structure	41, 1-2, 127-137	https://doi.org/10.3166/ACSM.41.127-137	Zhao, Y.S., Li, P., Yin, Q., Wang, T. (2017). Analysis on structural design and experimental effect of two kinds of hollow-through DTH hammer reverse circulation bits. Annales de Chimie - Science des Matériaux, Vol. 41, No. 1-2, pp. 127-137. https://doi.org/10.3166/ACSM.41.127-137

172	Kan, J.G., Sen, Y., Liang, D.X.	Experimental study on the law of roof caving of pillarless gob-side entry retaining	pillarless gob-side entry retaining, roof caving, deformation characteristic, physical simulation	41, 1-2, 139-150	https://doi.org/10.3166/ACSM.41.139-150	Kan, J.G., Sen, Y., Liang, D.X. (2017). Experimental study on the law of roof caving of pillarless gob-side entry retaining. Annales de Chimie - Science des Matériaux, Vol. 41, No. 1-2, pp. 139-150. https://doi.org/10.3166/ACSM.41.139-150