Rana A Shakoor

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8807280/publications.pdf

Version: 2024-02-01

230	6,215	76196	95083
papers	citations	40 h-index	68 g-index

231	231	231	6654
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electrochemical and Thermal Properties of NASICON Structured Na₃V₂(PO₄)₃as a Sodium Rechargeable Battery Cathode: A Combined Experimental and Theoretical Study. Journal of the Electrochemical Society, 2012, 159, A1393-A1397.	1.3	316
2	Na₂FeP₂O₇ as a Promising Ironâ€Based Pyrophosphate Cathode for Sodium Rechargeable Batteries: A Combined Experimental and Theoretical Study. Advanced Functional Materials, 2013, 23, 1147-1155.	7.8	316
3	A combined first principles and experimental study on Na3V2(PO4)2F3 for rechargeable Na batteries. Journal of Materials Chemistry, 2012, 22, 20535.	6.7	306
4	Hierarchical Porous Carbon by Ultrasonic Spray Pyrolysis Yields Stable Cycling in Lithiumâ€“Sulfur Battery. Nano Letters, 2014, 14, 4418-4425.	4.5	234
5	Anomalous Manganese Activation of a Pyrophosphate Cathode in Sodium Ion Batteries: A Combined Experimental and Theoretical Study. Journal of the American Chemical Society, 2013, 135, 2787-2792.	6.6	165
6	Enhanced performance of nano-sized SiC reinforced Al metal matrix nanocomposites synthesized through microwave sintering and hot extrusion techniques. Progress in Natural Science: Materials International, 2017, 27, 606-614.	1.8	143
7	Organic Thinâ€Film Capacitive and Resistive Humidity Sensors: A Focus Review. Advanced Materials Interfaces, 2018, 5, 1800969.	1.9	139
8	Phyto-Toxicity of Chromium in Maize: Oxidative Damage, Osmolyte Accumulation, Anti-Oxidative Defense and Chromium Uptake. Pedosphere, 2017, 27, 262-273.	2.1	104
9	Effect of reinforcement concentration on the properties of hot extruded Al-Al2O3 composites synthesized through microwave sintering process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 696, 60-69.	2.6	104
10	Advances in osteobiologic materials for bone substitutes. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 1448-1468.	1.3	98
11	Instability in CH3NH3PbI3 perovskite solar cells due to elemental migration and chemical composition changes. Scientific Reports, 2017, 7, 15406.	1.6	95
12	Epoxy coatings modified with a new cerium phosphate inhibitor for smart corrosion protection of steel. Corrosion Science, 2019, 159, 108128.	3.0	95
13	Synthesis and properties of electrodeposited Niâ€“Bâ€“CeO2 composite coatings. Materials & Design, 2014, 59, 421-429.	5.1	86
14	Properties of electrodeposited Niâ€“Bâ€“Al2O3 composite coatings. Materials & Design, 2014, 64, 127-135.	5.1	80
15	Properties enhancement of Ni-P electrodeposited coatings by the incorporation of nanoscale Y2O3 particles. Applied Surface Science, 2018, 457, 956-967.	3.1	76
16	Multifunctional self-healing polymeric nanocomposite coatings for corrosion inhibition of steel. Surface and Coatings Technology, 2019, 372, 121-133.	2.2	74
17	Silicon@porous nitrogen-doped carbon spheres through a bottom-up approach are highly robust lithium-ion battery anodes. RSC Advances, 2012, 2, 4311.	1.7	73
18	PLA-TiO2 nanocomposites: Thermal, morphological, structural, and humidity sensing properties. Ceramics International, 2018, 44, 16507-16513.	2.3	73

#	Article	IF	Citations
19	Na4MnV(PO4)3-rGO as Advanced cathode for aqueous and non-aqueous sodium ion batteries. Journal of Power Sources, 2019, 429, 149-155.	4.0	72
20	Hybrid Halloysite Nanotubes as Smart Carriers for Corrosion Protection. ACS Applied Materials & Interfaces, 2020, 12, 37571-37584.	4.0	69
21	Enhancing compressive, tensile, thermal and damping response of pure Al using BN nanoparticles. Journal of Alloys and Compounds, 2018, 762, 398-408.	2.8	68
22	Biochemically Triggered Heat and Drought Stress Tolerance in Rice by Proline Application. Journal of Plant Growth Regulation, 2021, 40, 305-312.	2.8	67
23	Slaking behavior of clay-bearing rocks during a one-year exposure to natural climatic conditions. Engineering Geology, 2013, 166, 17-25.	2.9	66
24	Extreme fast charging characteristics of zirconia modified LiNi0.5Mn1.5O4 cathode for lithium ion batteries. Journal of Power Sources, 2018, 396, 774-781.	4.0	63
25	Microstructure and properties of sol-enhanced Ni-Co-TiO2 nano-composite coatings on mild steel. Journal of Alloys and Compounds, 2015, 649, 222-228.	2.8	61
26	Enhancing thermal and mechanical response of aluminum using nanolength scale TiC ceramic reinforcement. Ceramics International, 2018, 44, 9247-9254.	2.3	61
27	Sodium intercalation/de-intercalation mechanism in Na4MnV(PO4)3 cathode materials. Electrochimica Acta, 2018, 292, 98-106.	2.6	61
28	Structural, mechanical and thermal characteristics of Al-Cu-Li particle reinforced Al-matrix composites synthesized by microwave sintering and hot extrusion. Composites Part B: Engineering, 2019, 164, 485-492.	5.9	60
29	Duplex Niâ€“Pâ€“ZrO2/Niâ€“P electroless coating on stainless steel. Journal of Alloys and Compounds, 2015, 630, 189-194.	2.8	59
30	Transition metal doped ceria for solar thermochemical fuel production. Solar Energy, 2018, 172, 204-211.	2.9	59
31	Understanding the Origin of the Ultrahigh Rate Performance of a SiO₂-Modified LiNi_{0.5}Mn_{1.5}O₄ Cathode for Lithium-Ion Batteries. ACS Applied Energy Materials, 2019, 2, 7263-7271.	2.5	53
32	Effect of BaTiO3 on the sensing properties of PVDF composite-based capacitive humidity sensors. Ceramics International, 2020, 46, 2949-2953.	2.3	52
33	Improved properties of Alâ€“Si₃N₄ nanocomposites fabricated through a microwave sintering and hot extrusion process. RSC Advances, 2017, 7, 34401-34410.	1.7	51
34	Self-Healing Performance of Multifunctional Polymeric Smart Coatings. Polymers, 2019, 11, 1519.	2.0	48
35	Effect of water content and density on strength and deformation behavior of clay soils. Engineering Geology, 2018, 244, 125-131.	2.9	47
36	Electrochemical and thermodynamic study on the corrosion performance of API X120 steel in 3.5% NaCl solution. Scientific Reports, 2020, 10, 4314.	1.6	46

#	Article	IF	Citations
37	Poreless Separator and Electrolyte Additive for Lithiumâ€“Sulfur Batteries with High Areal Energy Densities. ChemNanoMat, 2015, 1, 240-245.	1.5	45
38	A mixed ironâ€“manganese based pyrophosphate cathode, Na₂Fe_{0.5}Mn_{0.5}P₂O₇, for rechargeable sodium ion batteries. Physical Chemistry Chemical Physics, 2016, 18, 3929-3935.	1.3	45
39	Cerium Dioxide Nanoparticles as Smart Carriers for Self-Healing Coatings. Nanomaterials, 2020, 10, 791.	1.9	45
40	A novel classification of prostate specific antigen (PSA) biosensors based on transducing elements. Talanta, 2017, 168, 52-61.	2.9	44
41	Microwave Rapid Sintering of Al-Metal Matrix Composites: A Review on the Effect of Reinforcements, Microstructure and Mechanical Properties. Metals, 2016, 6, 143.	1.0	41
42	Effect of sintering temperature on the structural and magnetic properties of MgFe2O4 ceramics prepared by spark plasma sintering. Ceramics International, 2016, 42, 4221-4227.	2.3	40
43	Cerium oxide loaded with Gum Arabic as environmentally friendly anti-corrosion additive for protection of coated steel. Materials and Design, 2021, 198, 109361.	3.3	39
44	Coal fly ash supported CoFe2O4 nanocomposites: Synergetic Fenton-like and photocatalytic degradation of methylene blue. Environmental Research, 2022, 206, 112280.	3.7	38
45	Site-Specific Transition Metal Occupation in Multicomponent Pyrophosphate for Improved Electrochemical and Thermal Properties in Lithium Battery Cathodes: A Combined Experimental and Theoretical Study. Journal of the American Chemical Society, 2012, 134, 11740-11748.	6.6	37
46	A comparative study of structural and mechanical properties of Alâ€“Cu composites prepared by vacuum and microwave sintering techniques. Journal of Materials Research and Technology, 2018, 7, 165-172.	2.6	37
47	Improvement of humidity sensing properties of PVDF-TiO2 nanocomposite films using acetone etching. Sensors and Actuators B: Chemical, 2019, 288, 408-413.	4.0	37
48	Stretchable strain sensors based on polyaniline/thermoplastic polyurethane blends. Polymer Bulletin, 2020, 77, 1081-1093.	1.7	37
49	Synthesis and properties of polyelectrolyte multilayered microcapsules reinforced smart coatings. Journal of Materials Science, 2019, 54, 12079-12094.	1.7	36
50	Enhanced mechanical and corrosion protection properties of pulse electrodeposited NiP-ZrO2 nanocomposite coatings. Surface and Coatings Technology, 2020, 403, 126340.	2.2	36
51	Effect of annealing temperature on the performance of printable carbon electrodes for perovskite solar cells. Organic Electronics, 2019, 65, 375-380.	1.4	35
52	Using B4C Nanoparticles to Enhance Thermal and Mechanical Response of Aluminum. Materials, 2017, 10, 621.	1.3	34
53	Development and Properties of Polymeric Nanocomposite Coatings. Polymers, 2019, 11, 852.	2.0	34
54	Aluminum nitride (AlN) reinforced electrodeposited Niâ€“B nanocomposite coatings. Ceramics International, 2020, 46, 9863-9871.	2.3	34

#	Article	IF	Citations
55	Limits and possible solutions in quantum dot organic solar cells. Renewable and Sustainable Energy Reviews, 2018, 82, 1551-1564.	8.2	33
56	Systematics study through scanning electron microscopy; a tool for the authentication of herbal drug Mentha suaveolens Ehrh. Microscopy Research and Technique, 2020, 83, 81-87.	1.2	33
57	Evaluating selected factors affecting the depth of undercutting in rocks subject to differential weathering. Engineering Geology, 2012, 124, 1-11.	2.9	32
58	Cellulose microfibers (CMFs) as a smart carrier for autonomous self-healing in epoxy coatings. New Journal of Chemistry, 2020, 44, 5702-5710.	1.4	32
59	Mechanochemical synthesis and electrochemical behavior of Na3FeF6 in sodium and lithium batteries. Solid State Ionics, 2012, 218, 35-40.	1.3	30
60	Synthesis and characterisation of Niâ€“B/Niâ€“Pâ€“CeO2 duplex composite coatings. Journal of Applied Electrochemistry, 2018, 48, 391-404.	1.5	29
61	Effect of concentration of DOC loaded TiO2 nanotubes on the corrosion behavior of smart coatings. Ceramics International, 2019, 45, 10492-10500.	2.3	29
62	Calcium carbonate particles loaded with triethanolamine and polyethylenimine for enhanced corrosion protection of epoxy coated steel. Corrosion Science, 2020, 167, 108548.	3.0	29
63	TiO2 encrusted MXene as a High-Performance anode material for Li-ion batteries. Applied Surface Science, 2022, 583, 152441.	3.1	29
64	Comparing discontinuity orientation data collected by terrestrial LiDAR and transit compass methods. Engineering Geology, 2014, 181, 78-92.	2.9	28
65	Optimization of ITO glass/TiO2 based DSSC photo-anodes through electrophoretic deposition and sintering techniques. Ceramics International, 2017, 43, 10540-10545.	2.3	28
66	Novel Electrodeposited Ni-B/Y2O3 Composite Coatings with Improved Properties. Coatings, 2017, 7, 161.	1.2	28
67	Fine-scale variations of fungal community in a heterogeneous grassland in Inner Mongolia: Effects of the plant community and edaphic parameters. Soil Biology and Biochemistry, 2018, 122, 104-110.	4.2	28
68	Impact of surface coating on electrochemical and thermal behaviors of a Li-rich Li_{1.2}Ni_{0.16}Mn_{0.56}Co_{0.08}O₂ cathode. RSC Advances, 2020, 10, 15274-15281.	1.7	28
69	Effect of concentration of TiC on the properties of pulse electrodeposited Niâ€“Pâ€“TiC nanocomposite coatings. Ceramics International, 2021, 47, 19123-19133.	2.3	28
70	Self-healing behavior of epoxy-based double-layer nanocomposite coatings modified with Zirconia nanoparticles. Materials and Design, 2021, 207, 109839.	3.3	28
71	Improved self-healing performance of polymeric nanocomposites reinforced with talc nanoparticles (TNPs) and urea-formaldehyde microcapsules (UFMCs). Arabian Journal of Chemistry, 2021, 14, 102926.	2.3	27
72	Investigating the reliability of H/V spectral ratio and image entropy for quantifying the degree of disintegration of weak rocks. Engineering Geology, 2016, 207, 115-128.	2.9	26

#	Article	IF	Citations
73	Enhancement of mechanical and corrosion resistance properties of electrodeposited Niâ€“Pâ€“TiC composite coatings. Scientific Reports, 2021, 11, 5327.	1.6	26
74	Autonomous self-healing in epoxy coatings provided by high efficiency isophorone diisocyanate (IPDI) microcapsules for protection of carbon steel. Progress in Organic Coatings, 2020, 139, 105445.	1.9	25
75	Recent Advances in WS2 and Its Based Heterostructures for Water-Splitting Applications. Catalysts, 2021, 11, 1283.	1.6	25
76	Microstructure and Compressive Behavior of Alâ€“Y2O3 Nanocomposites Prepared by Microwave-Assisted Mechanical Alloying. Metals, 2019, 9, 414.	1.0	24
77	Corrosion and Heat Treatment Study of Electroless NiP-Ti Nanocomposite Coatings Deposited on HSLA Steel. Nanomaterials, 2020, 10, 1932.	1.9	24
78	One-dimensional facile growth of MAPbI₃ perovskite micro-rods. RSC Advances, 2019, 9, 11589-11594.	1.7	23
79	A focused review on smart carriers tailored for corrosion protection: Developments, applications, and challenges. Progress in Organic Coatings, 2021, 154, 106218.	1.9	23
80	Bacillus pumilus induced tolerance of Maize (Zea mays L.) against Cadmium (Cd) stress. Scientific Reports, 2021, 11, 17196.	1.6	23
81	Study of Microstructural and Mechanical Properties of Al/SiC/TiO2 Hybrid Nanocomposites Developed by Microwave Sintering. Crystals, 2021, 11, 1078.	1.0	23
82	Erosion Behaviour of API X100 Pipeline Steel at Various Impact Angles and Particle Speeds. Metals, 2016, 6, 232.	1.0	22
83	Synthesis and electrochemical characterization of Cr-doped lithium-rich Li1.2Ni0.16Mn0.56Co0.08-xCrxO2 cathodes. Emergent Materials, 2018, 1, 155-164.	3.2	22
84	Multilevel Self-Healing Characteristics of Smart Polymeric Composite Coatings. ACS Applied Materials & Interfaces, 2021, 13, 51459-51473.	4.0	22
85	Compositional engineering of the pi-conjugated small molecular VOPcPhOâ€‰:â€‰Alq₃ complex to boost humidity sensing. RSC Advances, 2017, 7, 19780-19786.	1.7	21
86	Effect of Temperature on the Corrosion Behavior of API X120 Pipeline Steel in H2S Environment. Journal of Materials Engineering and Performance, 2017, 26, 3775-3783.	1.2	21
87	Structural and Mechanical Properties of Al-SiC-ZrO2 Nanocomposites Fabricated by Microwave Sintering Technique. Crystals, 2020, 10, 904.	1.0	21
88	Investigating statistical relationships among clay mineralogy, index engineering properties, and shear strength parameters of mudrocks. Engineering Geology, 2013, 159, 45-58.	2.9	20
89	Structural and Mechanical Properties of Amorphous Si3N4 Nanoparticles Reinforced Al Matrix Composites Prepared by Microwave Sintering. Ceramics, 2019, 2, 126-134.	1.0	20
90	On the synergistic corrosion inhibition and polymer healing effects of polyolefin coatings modified with Ce-loaded hydroxyapatite particles applied on steel. Electrochimica Acta, 2021, 388, 138648.	2.6	20

#	Article	IF	Citations
91	Engineering geology â€" A fifty year perspective. Engineering Geology, 2016, 201, 67-70.	2.9	19
92	Stability-indicating RP-HPLC method for simultaneous determination of metformin hydrochloride and vildagliptin in tablet and biological samples. Acta Chromatographica, 2020, 32, 39-43.	0.7	19
93	Structural and magnetic studies of La2BMnO6 (B Ni and Co) nanoparticles prepared by microwave sintering approach. Materials Chemistry and Physics, 2016, 177, 346-352.	2.0	18
94	Eco-friendly dredged material-cement bricks. Construction and Building Materials, 2021, 271, 121524.	3.2	18
95	Biosynthesis Pathways, Transport Mechanisms and Biotechnological Applications of Fungal Siderophores. Journal of Fungi (Basel, Switzerland), 2022, 8, 21.	1.5	18
96	Corrosion Behavior of API X100 Steel Material in a Hydrogen Sulfide Environment. Metals, 2017, 7, 109.	1.0	17
97	Microstructure and Mechanical Behavior of Microwave Sintered Cu50Ti50 Amorphous Alloy Reinforced Al Metal Matrix Composites. Jom, 2018, 70, 817-822.	0.9	17
98	Designing and performance evaluation of polyelectrolyte multilayered composite smart coatings. Progress in Organic Coatings, 2019, 137, 105319.	1.9	17
99	Sodium and lithium incorporated cathode materials for energy storage applications - A focused review. Journal of Power Sources, 2021, 506, 230098.	4.0	17
100	Investigating the Properties of Electrodeposited of Ni-P-ZrC Nanocomposite Coatings. ACS Omega, 2021, 6, 33310-33324.	1.6	17
101	Effect of soil applied Lâ€tryptophan on growth and chemical composition of cotton. Journal of Plant Nutrition, 1995, 18, 317-329.	0.9	16
102	Erosive wear performance of API X42 pipeline steel. Engineering Failure Analysis, 2016, 60, 86-95.	1.8	16
103	Growth of MAPbBr3 perovskite crystals and its interfacial properties with Al and Ag contacts for perovskite solar cells. Optical Materials, 2017, 73, 50-55.	1.7	16
104	Corrosion Behavior of Electrodeposited Ni-B Coatings Modified with SiO2 Particles. International Journal of Electrochemical Science, 2017, 12, 4384-4391.	0.5	16
105	Synthesis and performance evaluation of nanostructured NaFexCr1â^'X(SO4)2 cathode materials in sodium ion batteries (SIBs). RSC Advances, 2018, 8, 32985-32991.	1.7	16
106	Hybrid shell microcapsules containing isophorone diisocyanate with high thermal and chemical stability for autonomous selfâ€healing of epoxy coatings. Journal of Applied Polymer Science, 2020, 137, 48751.	1.3	16
107	Impact of coatings on the electrochemical performance of LiNi0.5Mn1.5O4 cathode materials: A focused review. Ceramics International, 2022, 48, 7374-7392.	2.3	16
108	Effect of ambient temperature on the efficiency of the PCPDTBT: PC71BM BHJ solar cells. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	15

#	Article	IF	Citations
109	Hydrocarbon degradation in oily sludge by bacterial consortium assisted with alfalfa (Medicago) Tj ETQq1 1 0.784314 rgBT /Overlock	0.6	15
110	Compositional engineering of VOPcPhO-TiO2 nano-composite to reduce the absolute threshold value of humidity sensors. Talanta, 2017, 174, 279-284.	2.9	14
111	Exogenous Potassiumâ€“Instigated Biochemical Regulations Confer Terminal Heat Tolerance in Wheat. Journal of Soil Science and Plant Nutrition, 2019, 19, 137-147.	1.7	14
112	Self-Healing Performance of Smart Polymeric Coatings Modified with Tung Oil and Linalyl Acetate. Polymers, 2021, 13, 1609.	2.0	14
113	Improving Mechanical, Thermal and Damping Properties of NiTi (Nitinol) Reinforced Aluminum Nanocomposites. Journal of Composites Science, 2020, 4, 19.	1.4	14
114	Influence of graphene wrapped-cerium oxide coating on spherical LiNi0.5Mn1.5O4 particles as cathode in high-voltage lithium-ion batteries. Journal of Alloys and Compounds, 2022, 920, 165989.	2.8	14
115	Thermomechanical behavior of Feâ€“Mnâ€“Siâ€“Crâ€“Ni shape memory alloys modified with samarium. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 499, 411-414.	2.6	13
116	Preparation and property of duplex Niâ€“Bâ€“TiO₂/Ni nano-composite coatings. International Journal of Modern Physics B, 2015, 29, 1540022.	1.0	13
117	Erosion Behavior of API X120 Steel: Effect of Particle Speed and Impact Angle. Coatings, 2018, 8, 343.	1.2	13
118	Application of Li-, Mg-, Ba-, Sr-, Ca-, and Sn-doped ceria for solar-driven thermochemical conversion of carbon dioxide. Journal of Materials Science, 2020, 55, 11797-11807.	1.7	13
119	Hydrological response of two high altitude Swiss catchments to energy balance and temperature index melt schemes. Polar Science, 2018, 17, 1-12.	0.5	12
120	Foliar Potassium-Induced Regulations in Glycine Betaine and Malondialdehyde Were Associated with Grain Yield of Heat-Stressed Bread Wheat (Triticum aestivum L.). Journal of Soil Science and Plant Nutrition, 2020, 20, 1785-1798.	1.7	12
121	Evaluation of genetic diversity in geranium (Geraniaceae) using RAPD marker. Genetika, 2021, 53, 363-378.	0.1	12
122	Effect of Silicon Nitride and Graphene Nanoplatelets on the Properties of Aluminum Metal Matrix Composites. Materials, 2021, 14, 1898.	1.3	11
123	Graphene wrapped Y2O3 coated LiNi0.5Mn1.5O4 quasi-spheres as novel cathode materials for lithium-ion batteries. Journal of Materials Research and Technology, 2021, 14, 1377-1389.	2.6	11
124	Structural, morphological and optical properties of PEDOT:PSS/QDs nano-composite films prepared by spin-casting. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 83, 64-68.	1.3	10
125	A BHJ-thin-film/liquid-electrolyte based electrochemical-sensor for visible light-detection. RSC Advances, 2017, 7, 35445-35450.	1.7	10
126	Assessment of heavy metals in different organs of cattle egrets (Bubulcus ibis) from a rural and urban environment in Pakistan. Environmental Science and Pollution Research, 2019, 26, 13095-13102.	2.7	10

#	Article	IF	Citations
127	Thermochemical splitting of CO2 using solution combustion synthesized LaMO3 (where, MÂ=ÂCo, Fe, Mn,) Tj ETQq1 1 0.784314 rgB	3.1	10
128	Battling the Invisible Infertility Agony: A Case Study of Infertile Women in Khyber Pakhtunkhwa-Pakistan. Journal of Ethnic and Cultural Studies, 2021, 8, 89-105.	0.4	10
129	Structural and mechanical properties of CeO2 reinforced Al matrix nanocomposites. Advanced Materials Letters, 2018, 9, 602-605.	0.3	10
130	Explicit formulas and determinantal representation for Î·-skew-Hermitian solution to a system of quaternion matrix equations. Filomat, 2020, 34, 2601-2627.	0.2	10
131	Spatiotemporal variation of climate of different flanks and elevations of the Qinlingâ€“Daba mountains in China during 1969â€“2018. Scientific Reports, 2022, 12, 6952.	1.6	10
132	A comparative study on the performance of hybrid solar cells containing ZnSTe QDs in hole transporting layer and photoactive layer. Journal of Nanoparticle Research, 2016, 18, 1.	0.8	9
133	A Durability Classification of Clay-Bearing Rocks Based on Particle Size Distribution of Slaked Material. Environmental and Engineering Geoscience, 2017, 23, 125-136.	0.3	9
134	Development of Metal Matrix Composites Using Microwave Sintering Technique. , 0, , .		9
135	Smart epoxy coating modified with isophorone diisocyanate microcapsules and cerium organophosphate for multilevel corrosion protection of carbon steel. Progress in Organic Coatings, 2020, 147, 105864.	1.9	9
136	Synthesis of lithium manganese oxide nanocomposites using microwaveâ€assisted chemical precipitation technique and their performance evaluation in lithiumâ€ion batteries. Energy Storage, 2020, 2, e202.	2.3	9
137	Optimum sintering method and temperature for cold compact Bismuth Telluride pellets for thermoelectric applications. Journal of Alloys and Compounds, 2021, 877, 160256.	2.8	9
138	Charge/Discharge Mechanism of Multicomponent Olivine Cathode for Lithium Rechargeable Batteries. Journal of Electrochemical Science and Technology, 2011, 2, 14-19.	0.9	9
139	Fabrication and Mechanical Properties of Extruded Al-SiC Nanocomposites. Nano Hybrids and Composites, 2017, 16, 9-12.	0.8	8
140	Removal of early fruit branches as potential regulator of Cry1Ac, antioxidants, senescence and yield in Bt. cotton. Industrial Crops and Products, 2018, 124, 885-898.	2.5	8
141	Ni incorporation in MgFe2O4 for improved CO2-splitting activity during solar fuel production. Journal of Materials Science, 2020, 55, 11086-11094.	1.7	8
142	Constraint Solution of a Classical System of Quaternion Matrix Equations and Its Cramerâ€™s Rule. Iranian Journal of Science and Technology, Transaction A: Science, 2021, 45, 1015-1024.	0.7	8
143	Effectiveness of Epoxy Coating Modified with Yttrium Oxide Loaded with Imidazole on the Corrosion Protection of Steel. Nanomaterials, 2021, 11, 2291.	1.9	8
144	Superior Non-Invasive Glucose Sensor Using Bimetallic CuNi Nanospecies Coated Mesoporous Carbon. Biosensors, 2021, 11, 463.	2.3	8

#	Article	IF	Citations
145	Enhancement of thermoelectric properties of low-toxic and earth-abundant copper selenide thermoelectric material by microwave annealing. Journal of Alloys and Compounds, 2022, 904, 164131.	2.8	8
146	Utilization of symmetric electrode materials in energy storage application: A review. International Journal of Energy Research, 2022, 46, 8590-8624.	2.2	8
147	Comparison of shape memory behavior and properties of iron-based shape memory alloys containing samarium addition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 457, 169-172.	2.6	7
148	Microstructure and properties of Niâ€“Coâ€“TiO2 composite coatings fabricated by electroplating. International Journal of Modern Physics B, 2015, 29, 1540008.	1.0	7
149	Effect of microwave sintering on the crystal domain and electrical properties of TiO2 nanoparticles. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	7
150	Synthesis and Performance Evaluation of Pulse Electrodeposited Ni-AlN Nanocomposite Coatings. Scanning, 2018, 2018, 1-13.	0.7	7
151	The General Solution of Quaternion Matrix Equation Having <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"><mml:mrow><mml:mi>Î·</mml:mi></mml:mrow></mml:math>-Skew-Hermicity and Its Cramerâ€™s Rule. Mathematical Problems in Engineering, 2019, 2019, 1-25.	0.6	7
152	An Efficient Method for Eulerâ€™s Elastica Based Image Deconvolution. IEEE Access, 2019, 7, 61226-61239.	2.6	7
153	Microstructure and Mechanical Behavior of Hot Extruded Aluminum/Tin-Bismuth Composites Produced by Powder Metallurgy. Applied Sciences (Switzerland), 2020, 10, 2812.	1.3	7
154	Fast and Scalable Synthesis of LiNi_{0.5}Mn_{1.5}O₄ Cathode by Solâ€“Gelâ€Assisted Microwave Sintering. Energy Technology, 2021, 9, 2100085.	1.8	7
155	Electrochemical Performance of Na3V2(PO4)2F3 Electrode Material in a Symmetric Cell. International Journal of Molecular Sciences, 2021, 22, 12045.	1.8	7
156	Characterization of Failure Parameters and Preliminary Slope Stability Analysis of the Cedar Canyon Landslide, Iron County, Utah. Environmental and Engineering Geoscience, 2016, 22, 245-258.	0.3	6
157	Flow Analysis at the Snow Covered High Altitude Catchment via Distributed Energy Balance Modeling. Scientific Reports, 2019, 9, 4783.	1.6	6
158	Effect of Inconel625 particles on the microstructural, mechanical, and thermal properties of Al-Inconel625 composites. Materials Today Communications, 2020, 25, 101564.	0.9	6
159	Some Formulas on the Drazin Inverse for the Sum of Two Matrices and Block Matrices. Bulletin of the Iranian Mathematical Society, 2022, 48, 351-366.	0.4	6
160	Role of samarium additions on the shape memory behavior of iron based alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 2299-2302.	2.6	5
161	Cut Slope Design Recommendations for Sub-Horizontal Hard Sedimentary Rock Units in Ohio, USA. Geotechnical and Geological Engineering, 2013, 31, 1207-1219.	0.8	5
162	Nanocomposite Niâ€“TiO2coatings produced by pulsed electroplating. Materials Research Innovations, 2014, 18, S4-1102-S4-1106.	1.0	5

#	Article	IF	Citations
163	Structural and mechanical properties of microwave sintered AlNi50Ti50 composites. Journal of Science: Advanced Materials and Devices, 2016, 1, 362-366.	1.5	5
164	n-InAs based photo-thermo-electrochemical cells for conversion of solar to electrical energy. Journal of Electroanalytical Chemistry, 2016, 775, 267-272.	1.9	5
165	Study of Ï€-conjugation effect of organic semiconductors on their optical parameters. Optical Materials, 2016, 54, 94-97.	1.7	5
166	Poly(3-Hexylthiophene) (P3HT), Poly(Gamma-Benzyl-l-Glutamate) (PBLG) and Poly(Methyl Methacrylate) (PMMA) as Energy Harvesting Materials. Springer Series on Polymer and Composite Materials, 2017, , 95-118.	0.5	5
167	Scanning Electron Microscopic Studies of Microwave Sintered Al-SiC Nanocomposites and Their Properties. Scanning, 2018, 2018, 1-8.	0.7	5
168	Fast and Adaptive Boosting Techniques for Variational Based Image Restoration. IEEE Access, 2019, 7, 181491-181504.	2.6	5
169	Improved electrochemical performance of SiO2-coated Li-rich layered oxides-Li1.2Ni0.13Mn0.54Co0.13O2. Journal of Materials Science: Materials in Electronics, 2020, 31, 19475-19486.	1.1	5
170	Performance Enhancement of PPMIM Drives by Using Three 3-Phase Four-Leg Inverters. IEEE Transactions on Industry Applications, 2021, 57, 2516-2526.	3.3	5
171	Study on the corrosion behavior of polymeric nanocomposite coatings containing halloysite nanotubes loaded with multicomponent inhibitor. Arabian Journal of Chemistry, 2022, 15, 104107.	2.3	5
172	Surface engineering of the PLA films for fabricating dexterous humidity sensors. Journal of Materials Science: Materials in Electronics, 2018, 29, 8135-8141.	1.1	4
173	Electro-sprayed PVA coating with texture-enriched surface morphology for augmented humidity sensing. Progress in Organic Coatings, 2018, 117, 7-9.	1.9	4
174	Landslide Susceptibility and Soil Loss Estimates for Drift Creek Watershed, Lincoln County, Oregon. Environmental and Engineering Geoscience, 2020, 26, 167-184.	0.3	4
175	Fabrication, Characterization, and Machining of Polypropylene/Wood Flour Composites. Arabian Journal for Science and Engineering, 2022, 47, 5973-5983.	1.7	4
176	Relationship between Lipoprotein(a) and cardiovascular risk factorsâ€"data from 4602 participants of the ELITE study. Reviews in Cardiovascular Medicine, 2021, 22, 1569.	0.5	4
177	Integration of the inexpensive CuNWs based transparent counter electrode with dye sensitized photo sensors. RSC Advances, 2016, 6, 53123-53129.	1.7	3
178	Evaluation of Rockfall-hazard Potential For Rockville, Utah, Following a 2013 Fatal Rockfall. Environmental and Engineering Geoscience, 2018, 24, 143-163.	0.3	3
179	Preservation of rare documentary sources in private libraries and religious institutions. Global Knowledge, Memory and Communication, 2021, 70, 876-890.	0.9	3
180	Diversity of endophytic fungal community associated to the roots of Argania spinosa (L.) Skeels growing in the arid and semi-arid regions of Algeria. Acta Agriculturae Slovenica, 2019, 114, 103.	0.2	3

#	Article	IF	Citations
181	A Short Analysis on the Morphological Characterization of Colloidal Quantum Dots for Photovoltaic Applications. Current Nanoscience, 2020, 16, 544-555.	0.7	3
182	Charge/Discharge Mechanism of Multicomponent Olivine Cathode for Lithium Rechargeable Batteries. Journal of Electrochemical Science and Technology, 2011, 2, 14-19.	0.9	3
183	More refinements of the operator reverse AM-GM inequality for positive linear maps. Journal of Mathematical Inequalities, 2019, , 287-300.	0.5	3
184	Some generalizations of retarded nonlinear integral inequalities and its applications. Journal of Mathematical Inequalities, 2020, , 1223-1235.	0.5	3
185	Morphological method and molecular marker determine genetic diversity and population structure in Allochrusa. Caryologia, 2021, 74, 121-130.	0.2	3
186	Computer simulation-based evaluation of rock fall roll-out distances for catchment ditch design in Ohio, USA. Georisk, 2013, 7, 198-208.	2.6	2
187	Impact of moisture contents on the performance of organic bi-layer ITO/OD thermo-electric cells. Journal of Materials Science: Materials in Electronics, 2016, 27, 9720-9724.	1.1	2
188	Using Discontinuity Mapping to Investigate the Origins of Rock City and Mountain Lake, Giles County, Virginia. Environmental and Engineering Geoscience, 2016, 22, 93-111.	0.3	2
189	Study of a ternary blend system for bulk heterojunction thin film solar cells. Chinese Physics B, 2016, 25, 080701.	0.7	2
190	Flexible thermo-electrochemical cells using Iodolyte HI-30 for conversion of low-grade heat to electrical energy. RSC Advances, 2016, 6, 71370-71374.	1.7	2
191	Fabrication and characterization of the organic rectifying junctions by electrolysis. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	2
192	Further Nonlinear Retarded Integral Inequalities for Gronwallâ€“Bellman Type and Their Applications. Iranian Journal of Science and Technology, Transaction A: Science, 2019, 43, 2559-2568.	0.7	2
193	Least-Norm of the General Solution to Some System of Quaternion Matrix Equations and Its Determinantal Representations. Abstract and Applied Analysis, 2019, 2019, 1-18.	0.3	2
194	Performance Enhancement of PPMIM Drives by using 3 Three-Phase Four-Leg Inverters. , 2019, , .		2
195	Nestedness and modularity in fragmented Shasha Forest Reserve, southwestern Nigeria. Journal of Sustainable Forestry, 2019, 38, 292-304.	0.6	2
196	Bacterial consortium for improved maize production under oily sludge. Agronomy Journal, 2020, 112, 4634-4647.	0.9	2
197	School role in improving parenting skills and academic performance of secondary schools students in Pakistan. Heliyon, 2020, 6, e05443.	1.4	2
198	Synthesis and Performance Evaluation of Na_(2â€x)Li_xFeP₂O₇ (x=0, 0.6) Hybrid Cathodes. ChemistrySelect, 2020, 5, 12548-12557.	0.7	2

#	Article	IF	Citations
199	Further Expressions on the Drazin Inverse for Block Matrix. Iranian Journal of Science and Technology, Transaction A: Science, 2020, 44, 833-837.	0.7	2
200	Morphometric analysis and sequence related amplified polymorphism determine genetic diversity in Salvia species. Notulae Botanicae Horti Agrobotanici Cluj-Napoca, 2021, 49, 12153.	0.5	2
201	Factors Contributing to Landslide Susceptibility of the Kope Formation, Cincinnati, Ohio. Environmental and Engineering Geoscience, 2021, 27, 307-318.	0.3	2
202	A New High Gain Modified Boost Converter for Renewable Energy Application with Closed Loop Control. , 2020, , .		2
203	Temperature and precipitation gradients determine biomass in Birch (Betula spp.) and Fir (Abies spp.) in Eurasia. Biologia Futura, 2022, 73, 119-131.	0.6	2
204	Electrodeposition of Ni-B-Zn Alloy Coatings and their Characterization. , 2015, , 149-157.		1
205	Rock Mass Characterization and Stability Evaluation of Mount Rushmore National Memorial, Keystone, South Dakota. Environmental and Engineering Geoscience, 2018, 24, 385-412.	0.3	1
206	The Mechanical and Thermal Response of Shape Memory Alloy-Reinforced Aluminum Nanocomposites. Minerals, Metals and Materials Series, 2019, , 51-62.	0.3	1
207	Influence of Salt Tectonics On Fault Displacements and Submarine Slope Failures from Algeria To Sardinia. Environmental and Engineering Geoscience, 2019, 25, 318-330.	0.3	1
208	Synergistic Erosion-Corrosion Behavior of API X120 Steel. Materials Today: Proceedings, 2020, 32, 37-43.	0.9	1
209	Deterministic growth factors: Temperature and precipitation effect above ground biomass of Larix spp. in Eurasia. Acta Ecologica Sinica, 2021, 41, 377-383.	0.9	1
210	Numerical investigation on the water entry impact characteristics of autonomous underwater vehicles. , 2020, , .		1
211	Development and Properties of Amorphous Particles Reinforced Al Matrix Nanocomposites. , 2021, , 96-108.		1
212	Synthesis and Performance Evaluation of SiO2 Coated Li-Rich Li1.2Ni0.13Mn0.54Co0.13O2 Cathode Materials for Li-Ion Batteries. ECS Meeting Abstracts, 2020, MA2020-01, 399-399.	0.0	1
213	Corrosion behavior of high strength low alloy HSLA steel in 35 wt% NaCl solution containing diethylenetriamine DETA as corrosion inhibitor. , 2018, , .		1
214	Recent Trends in Applications of X-ray Photoelectron Spectroscopy (XPS) Technique in Coatings for Corrosion Protection. , 2022, , 167-186.		1
215	Effect of the modified hybrid particle on the corrosion inhibition performance of Polyolefin based coatings for carbon steel. Journal of Science: Advanced Materials and Devices, 2022, , 100466.	1.5	1
216	A Durability-Based Approach for Designing Cut Slopes in Weak Rock Units in Ohio. Environmental and Engineering Geoscience, 2016, 22, 279-296.	0.3	0

#	Article	IF	Citations
217	Novel Ni Based Duplex Coatings for Anticorrosion Applications. ECS Transactions, 2017, 80, 593-602.	0.3	0
218	Experimental and numerical analysis of nanoindentation of Ti-6246 alloy. Particulate Science and Technology, 2018, 36, 408-418.	1.1	0
219	Spatial patterns and determinants of common root-associated fungi in a subtropical forest of China. Journal of Plant Ecology, 2019, 12, 255-263.	1.2	0
220	Are Three to Ten Tests Enough to Characterize a Rock Property?. Environmental and Engineering Geoscience, 2019, 25, 223-244.	0.3	0
221	Strong genetic differentiation of the Paracaryum species (Boraginaceae) detected by inter-simple sequence repeats (ISSR). Genetika, 2021, 53, 883-894.	0.1	0
222	Understanding the Electrochemical Performance of Hybrid Na(2-x)LixFeP2O7 (x= 0, 0.6) Cathode Materials. ECS Meeting Abstracts, 2021, MA2021-01, 4-4.	0.0	0
223	Topical application of â€˜Heminâ€™ promotes wound healing in Streptozotocin-induced diabetic rats. Veterinarski Arhiv, 2021, 91, 287-296.	0.1	0
224	Response of Bacillus cereus on Zea mays under different doses of zinc sulphate. Acta Botanica Croatica, 2021, 80, .	0.3	0
225	Teaching â€œDesign-for-Corrosionâ€•to Engineering Undergraduates. , 2017, , 1578-1604.		0
226	A cross Sectional Analysis of Immorality and Divorce in Traditional society. Journal of Divorce and Remarriage, 2022, 63, 200-213.	0.4	0
227	Double-layered Polymeric Nanocomposite Coatings for Corrosion Inhibition. ECS Meeting Abstracts, 2021, MA2021-02, 602-602.	0.0	0
228	Changes in foliage biomass of the genera Larix and Pinus along gradients of temperature and precipitation in Eurasia. Pakistan Journal of Botany, 2022, 54, .	0.2	0
229	Biological activities of three medicinal plants from district Mirpur, AJK, Pakistan. Pakistan Journal of Pharmaceutical Sciences, 2018, 31, 2341-2346.	0.2	0
230	Factors Affecting Shrinkage Crack Development in Clay Soils: An Experimental Study. Environmental and Engineering Geoscience, 2022, , .	0.3	0