

Ramazan Kahraman

List of Publications by Year in descending order

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101
papers

3,438
citations

136740

32
h-index

155451

55
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102
all docs

102
docs citations

102
times ranked

3684
citing authors

#	ARTICLE	IF	CITATIONS
1	Na ₂ FeP ₂ O ₇ as a Promising Iron-Based Pyrophosphate Cathode for Sodium Rechargeable Batteries: A Combined Experimental and Theoretical Study. <i>Advanced Functional Materials</i> , 2013, 23, 1147-1155.	7.8	316
2	Hierarchical Porous Carbon by Ultrasonic Spray Pyrolysis Yields Stable Cycling in Lithium-Sulfur Battery. <i>Nano Letters</i> , 2014, 14, 4418-4425.	4.5	234
3	Influence of adhesive thickness and filler content on the mechanical performance of aluminum single-lap joints bonded with aluminum powder filled epoxy adhesive. <i>Journal of Materials Processing Technology</i> , 2008, 205, 183-189.	3.1	181
4	Anomalous Manganese Activation of a Pyrophosphate Cathode in Sodium Ion Batteries: A Combined Experimental and Theoretical Study. <i>Journal of the American Chemical Society</i> , 2013, 135, 2787-2792.	6.6	165
5	Date palm wood flour/glass fibre reinforced hybrid composites of recycled polypropylene: Mechanical and thermal properties. <i>Materials & Design</i> , 2012, 42, 289-294.	5.1	135
6	An Overview of Solid Waste Management and Plastic Recycling in Qatar. <i>Journal of Polymers and the Environment</i> , 2012, 20, 186-194.	2.4	119
7	Epoxy coatings modified with a new cerium phosphate inhibitor for smart corrosion protection of steel. <i>Corrosion Science</i> , 2019, 159, 108128.	3.0	95
8	Synthesis and properties of electrodeposited Ni-B-CeO ₂ composite coatings. <i>Materials & Design</i> , 2014, 59, 421-429.	5.1	86
9	Properties of electrodeposited Ni-B-Al ₂ O ₃ composite coatings. <i>Materials & Design</i> , 2014, 64, 127-135.	5.1	80
10	Properties enhancement of Ni-P electrodeposited coatings by the incorporation of nanoscale Y ₂ O ₃ particles. <i>Applied Surface Science</i> , 2018, 457, 956-967.	3.1	76
11	Multifunctional self-healing polymeric nanocomposite coatings for corrosion inhibition of steel. <i>Surface and Coatings Technology</i> , 2019, 372, 121-133.	2.2	74
12	Hybrid Halloysite Nanotubes as Smart Carriers for Corrosion Protection. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 37571-37584.	4.0	69
13	Extreme fast charging characteristics of zirconia modified LiNi _{0.5} Mn _{1.5} O ₄ cathode for lithium ion batteries. <i>Journal of Power Sources</i> , 2018, 396, 774-781.	4.0	63
14	Microstructure and properties of sol-enhanced Ni-Co-TiO ₂ nano-composite coatings on mild steel. <i>Journal of Alloys and Compounds</i> , 2015, 649, 222-228.	2.8	61
15	Sodium intercalation/de-intercalation mechanism in Na ₄ MnV(PO ₄) ₃ cathode materials. <i>Electrochimica Acta</i> , 2018, 292, 98-106.	2.6	61
16	Duplex Ni-P-ZrO ₂ /Ni-P electroless coating on stainless steel. <i>Journal of Alloys and Compounds</i> , 2015, 630, 189-194.	2.8	59
17	Durability characteristics of high and ultra-high performance concretes. <i>Journal of Building Engineering</i> , 2021, 33, 101669.	1.6	58
18	Electrochemical behavior of mild and corrosion resistant concrete reinforcing steels. <i>Construction and Building Materials</i> , 2020, 232, 117205.	3.2	57

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19	Understanding the Origin of the Ultrahigh Rate Performance of a SiO ₂ -Modified LiNi _{0.5} Mn _{1.5} O ₄ Cathode for Lithium-Ion Batteries. ACS Applied Energy Materials, 2019, 2, 7263-7271.	2.5	53
20	Characterization of untreated and treated male and female date palm leaves. Materials & Design, 2013, 43, 526-531.	5.1	51
21	Advancements in Concrete Mix Designs: High-Performance and Ultrahigh-Performance Concretes from 1970 to 2016. Journal of Materials in Civil Engineering, 2018, 30, .	1.3	50
22	Self-Healing Performance of Multifunctional Polymeric Smart Coatings. Polymers, 2019, 11, 1519.	2.0	48
23	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
24	Poreless Separator and Electrolyte Additive for Lithium-Sulfur Batteries with High Areal Energy Densities. ChemNanoMat, 2015, 1, 240-245.	1.5	45
25	A mixed iron-manganese based pyrophosphate cathode, Na ₂ Fe _{0.5} Mn _{0.5} P ₂ O ₇ , for rechargeable sodium ion batteries. Physical Chemistry Chemical Physics, 2016, 18, 3929-3935.	1.3	45
26	Cerium Dioxide Nanoparticles as Smart Carriers for Self-Healing Coatings. Nanomaterials, 2020, 10, 791.	1.9	45
27	A novel classification of prostate specific antigen (PSA) biosensors based on transducing elements. Talanta, 2017, 168, 52-61.	2.9	44
28	Bio self-healing concrete using MICP by an indigenous Bacillus cereus strain isolated from Qatari soil. Construction and Building Materials, 2022, 328, 126943.	3.2	41
29	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
30	Synthesis and properties of polyelectrolyte multilayered microcapsules reinforced smart coatings. Journal of Materials Science, 2019, 54, 12079-12094.	1.7	36
31	Enhanced mechanical and corrosion protection properties of pulse electrodeposited NiP-ZrO ₂ nanocomposite coatings. Surface and Coatings Technology, 2020, 403, 126340.	2.2	36
32	Moisture diffusion into aluminum powder-filled epoxy adhesive in sodium chloride solutions. International Journal of Adhesion and Adhesives, 2005, 25, 337-341.	1.4	35
33	Development and Properties of Polymeric Nanocomposite Coatings. Polymers, 2019, 11, 852.	2.0	34
34	Cellulose microfibrils (CMFs) as a smart carrier for autonomous self-healing in epoxy coatings. New Journal of Chemistry, 2020, 44, 5702-5710.	1.4	32
35	Synthesis and characterisation of Ni-B/Ni-P-CeO ₂ duplex composite coatings. Journal of Applied Electrochemistry, 2018, 48, 391-404.	1.5	29
36	Effect of concentration of DOC loaded TiO ₂ nanotubes on the corrosion behavior of smart coatings. Ceramics International, 2019, 45, 10492-10500.	2.3	29

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37	Calcium carbonate particles loaded with triethanolamine and polyethylenimine for enhanced corrosion protection of epoxy coated steel. <i>Corrosion Science</i> , 2020, 167, 108548.	3.0	29
38	TiO ₂ encrusted MXene as a High-Performance anode material for Li-ion batteries. <i>Applied Surface Science</i> , 2022, 583, 152441.	3.1	29
39	Novel Electrodeposited Ni-B/Y ₂ O ₃ Composite Coatings with Improved Properties. <i>Coatings</i> , 2017, 7, 161.	1.2	28
40	Self-healing behavior of epoxy-based double-layer nanocomposite coatings modified with Zirconia nanoparticles. <i>Materials and Design</i> , 2021, 207, 109839.	3.3	28
41	Improved self-healing performance of polymeric nanocomposites reinforced with talc nanoparticles (TNPs) and urea-formaldehyde microcapsules (UFMCs). <i>Arabian Journal of Chemistry</i> , 2021, 14, 102926.	2.3	27
42	Corrosion Behavior of Carbon Steel in CO ₂ -Saturated Amine and Imidazolium-, Ammonium-, and Phosphonium-Based Ionic Liquid Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 446-454.	1.8	26
43	Effect of fouling on operational cost in pipe flow due to entropy generation. <i>Energy Conversion and Management</i> , 2000, 41, 1485-1496.	4.4	25
44	Autonomous self-healing in epoxy coatings provided by high efficiency isophorone diisocyanate (IPDI) microcapsules for protection of carbon steel. <i>Progress in Organic Coatings</i> , 2020, 139, 105445.	1.9	25
45	A focused review on smart carriers tailored for corrosion protection: Developments, applications, and challenges. <i>Progress in Organic Coatings</i> , 2021, 154, 106218.	1.9	23
46	Synthesis and electrochemical characterization of Cr-doped lithium-rich Li _{1.2} Ni _{0.16} Mn _{0.56} Co _{0.08-x} Cr _x O ₂ cathodes. <i>Emergent Materials</i> , 2018, 1, 155-164.	3.2	22
47	Multilevel Self-Healing Characteristics of Smart Polymeric Composite Coatings. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 51459-51473.	4.0	22
48	Moisture diffusion into epoxy adhesive: testing and modeling. <i>Adsorption</i> , 2007, 13, 115-120.	1.4	20
49	Reinforced Concrete Degradation in the Harsh Climates of the Arabian Gulf: Field Study on 30-to-50-Year-Old Structures. <i>Journal of Performance of Constructed Facilities</i> , 2018, 32, 04018059.	1.0	20
50	Pellet Breakup Due to Pressure Generated during Wood Pyrolysis. <i>Industrial & Engineering Chemistry Research</i> , 2000, 39, 3255-3263.	1.8	19
51	Designing and performance evaluation of polyelectrolyte multilayered composite smart coatings. <i>Progress in Organic Coatings</i> , 2019, 137, 105319.	1.9	17
52	Sodium and lithium incorporated cathode materials for energy storage applications - A focused review. <i>Journal of Power Sources</i> , 2021, 506, 230098.	4.0	17
53	Synthesis and performance evaluation of nanostructured Na _x F _{1-x} Cr _{1-x} (SO ₄) ₂ cathode materials in sodium ion batteries (SIBs). <i>RSC Advances</i> , 2018, 8, 32985-32991.	1.7	16
54	Hybrid shell microcapsules containing isophorone diisocyanate with high thermal and chemical stability for autonomous self-healing of epoxy coatings. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48751.	1.3	16

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55	Impact of coatings on the electrochemical performance of LiNi _{0.5} Mn _{1.5} O ₄ cathode materials: A focused review. <i>Ceramics International</i> , 2022, 48, 7374-7392.	2.3	16
56	An Auger spectroscopic investigation of the high temperature reduction of zirconium dioxide surfaces in vacuum. <i>Applied Surface Science</i> , 1989, 37, 327-336.	3.1	15
57	Self-Healing Performance of Smart Polymeric Coatings Modified with Tung Oil and Linalyl Acetate. <i>Polymers</i> , 2021, 13, 1609.	2.0	14
58	Influence of graphene wrapped-cerium oxide coating on spherical LiNi _{0.5} Mn _{1.5} O ₄ particles as cathode in high-voltage lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2022, 920, 165989.	2.8	14
59	Investigation by Auger spectroscopy of the composition and surface oxidation characteristics of oxygen saturated zirconium. <i>Applied Surface Science</i> , 1989, 35, 302-316.	3.1	13
60	Inhibition of atmospheric corrosion of mild steel by sodium benzoate treatment. <i>Journal of Materials Engineering and Performance</i> , 2002, 11, 46-50.	1.2	13
61	Preparation and property of duplex Ni-B-TiO ₂ /Ni nano-composite coatings. <i>International Journal of Modern Physics B</i> , 2015, 29, 1540022.	1.0	13
62	Erosion Behavior of API X120 Steel: Effect of Particle Speed and Impact Angle. <i>Coatings</i> , 2018, 8, 343.	1.2	13
63	Effect of Inhibitor Treatment on Corrosion of Steel in a Salt Solution. <i>Journal of Materials Engineering and Performance</i> , 2003, 12, 524-528.	1.2	12
64	Highly protective polyolefin coating modified with ceria nano particles treated with N,N,N',N'-Tetrakis(2-hydroxyethyl)ethylenediamine for corrosion protection of carbon steel. <i>Corrosion Science</i> , 2022, 198, 110162.	3.0	12
65	Graphene wrapped Y ₂ O ₃ coated LiNi _{0.5} Mn _{1.5} O ₄ quasi-spheres as novel cathode materials for lithium-ion batteries. <i>Journal of Materials Research and Technology</i> , 2021, 14, 1377-1389.	2.6	11
66	Mechanical and durability properties of ultra-high performance steel FRC made with discarded materials. <i>Journal of Building Engineering</i> , 2021, 44, 103264.	1.6	10
67	Studies on a terephthalic acid and dihydroxydiphenyl sulfone liquid crystalline copolymer and its composites with different thermoplastics. <i>Journal of Applied Polymer Science</i> , 1997, 64, 645-652.	1.3	9
68	Effects of the aluminum filler content on moisture diffusion into epoxy adhesives in distilled water and sea water. <i>Journal of Applied Polymer Science</i> , 2005, 98, 1165-1171.	1.3	9
69	Life Cycle Assessment of Particulate Recycled Low Density Polyethylene and Recycled Polypropylene Reinforced with Talc and Fiberglass. <i>Key Engineering Materials</i> , 0, 471-472, 999-1004.	0.4	9
70	Corrosion performance of mild steel and epoxy coated rebar in concrete under simulated harsh environment. <i>International Journal of Building Pathology and Adaptation</i> , 2019, 37, 657-678.	0.7	9
71	Smart epoxy coating modified with isophorone diisocyanate microcapsules and cerium organophosphate for multilevel corrosion protection of carbon steel. <i>Progress in Organic Coatings</i> , 2020, 147, 105864.	1.9	9
72	Effectiveness of Epoxy Coating Modified with Yttrium Oxide Loaded with Imidazole on the Corrosion Protection of Steel. <i>Nanomaterials</i> , 2021, 11, 2291.	1.9	8

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73	Utilization of symmetric electrode materials in energy storage application: A review. International Journal of Energy Research, 2022, 46, 8590-8624.	2.2	8
74	Corrosion of inhibitor treated mild steel immersed in distilled water and a simulated salt solution. Anti-Corrosion Methods and Materials, 2013, 60, 227-233.	0.6	7
75	Microstructure and properties of Ni-Co-TiO ₂ composite coatings fabricated by electroplating. International Journal of Modern Physics B, 2015, 29, 1540008.	1.0	7
76	Synthesis and Performance Evaluation of Pulse Electrodeposited Ni-AlN Nanocomposite Coatings. Scanning, 2018, 2018, 1-13.	0.7	7
77	Electrochemical Performance of Na ₃ V ₂ (PO ₄) ₂ F ₃ Electrode Material in a Symmetric Cell. International Journal of Molecular Sciences, 2021, 22, 12045.	1.8	7
78	Influence of Fiber-Matrix Bond Strength on the Performance of Nicalon/CAS-II Composite. Journal of Composite Materials, 1996, 30, 864-884.	1.2	5
79	Numerical and experimental investigation of melting of ice involving natural convection. International Journal of Energy Research, 2002, 26, 347-354.	2.2	5
80	Moisture Absorption Behavior of Palm/Polypropylene Composites in Distilled Water and Sea Water. International Journal of Polymeric Materials and Polymeric Biomaterials, 2007, 56, 43-53.	1.8	5
81	Improved electrochemical performance of SiO ₂ -coated Li-rich layered oxides-Li _{1.2} Ni _{0.13} Mn _{0.54} Co _{0.13} O ₂ . Journal of Materials Science: Materials in Electronics, 2020, 31, 19475-19486.	1.1	5
82	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
83	Absorption of CO ₂ Laser Beam in Relation to Laser Cutting Process. Japanese Journal of Applied Physics, 1997, 36, 2689-2697.	0.8	4
84	Concentration Dependence of Moisture Diffusivity in Aluminum Particle Filled Epoxy Adhesive in Salt Solutions. Journal of Adhesion, 2007, 83, 183-194.	1.8	4
85	Second law analysis of a gravity-driven liquid film flowing along an inclined plate subjected to constant wall temperature. International Journal of Exergy, 2014, 14, 156.	0.2	4
86	Bond performance of tensile lap-spliced basalt-FRP reinforcement in high-strength concrete beams. Composite Structures, 2022, 281, 114987.	3.1	4
87	Second law analysis of compressible flow through a diffuser subjected to constant heat flux at wall. Energy Conversion and Management, 2010, 51, 2808-2815.	4.4	3
88	Surface characterization of mild steel exposed to atmosphere after being treated by sodium benzoate and dicyclohexylamine nitrite. Anti-Corrosion Methods and Materials, 2016, 63, 337-346.	0.6	3
89	Moisture diffusion into palm/polypropylene composites in sodium chloride solutions. Journal of Applied Polymer Science, 2007, 106, 2575-2579.	1.3	2
90	Synthesis and Performance Evaluation of Na ₂ (2-x)Li _x FeP ₂ O ₇ (x=0, 0.6) Hybrid Cathodes. ChemistrySelect, 2020, 5, 12548-12557.	0.7	2

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91	Transverse Fracture Study of a Ceramic Composite by Double Torsion Technique under Oxidizing Conditions. Journal of Composite Materials, 1997, 31, 2038-2051.	1.2	1
92	Second law analysis of compressible flow through a diffuser subjected to constant wall temperature. International Journal of Exergy, 2010, 7, 110.	0.2	1
93	Surface Characterization of Mild Steel During Atmospheric Corrosion After Being Treated by Sodium Dihydrogen Orthophosphate. Protection of Metals and Physical Chemistry of Surfaces, 2018, 54, 926-933.	0.3	1
94	Synthesis and Performance Evaluation of SiO ₂ Coated Li-Rich Li _{1.2} Ni _{0.13} Mn _{0.54} Co _{0.13} O ₂ Cathode Materials for Li-Ion Batteries. ECS Meeting Abstracts, 2020, MA2020-01, 399-399.	0.0	1
95	Corrosion behavior of high strength low alloy HSLA steel in 35 wt% NaCl solution containing diethylenetriamine DETA as corrosion inhibitor. , 2018, , .		1
96	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
97	Processing and Characterization of Palm Fiber-Polypropylene Composites. Key Engineering Materials, 0, 471-472, 145-150.	0.4	0
98	Novel Ni Based Duplex Coatings for Anticorrosion Applications. ECS Transactions, 2017, 80, 593-602.	0.3	0
99	A study of through-thickness notch effects on high temperature fracture behavior of a SiC/glass-ceramic composite. , 1998, , .		0
100	Teaching "Design-for-Corrosion" to Engineering Undergraduates. Advances in Chemical and Materials Engineering Book Series, 2015, , 21-45.	0.2	0
101	Teaching "Design-for-Corrosion" to Engineering Undergraduates. , 2017, , 1578-1604.		0