

# Ramazan Kahraman

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

96  
papers

2,265  
citations

24  
h-index

45  
g-index

102  
ext. papers

2,818  
ext. citations

4.6  
avg, IF

5.27  
L-index

#	Paper	IF	Citations
96	TiO <sub>2</sub> encrusted MXene as a High-Performance anode material for Li-ion batteries. <i>Applied Surface Science</i> , <b>2022</b> , 583, 152441	6.7	2
95	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> , <b>2022</b> , 198, 110162	6.8	0
94	Impact of coatings on the electrochemical performance of LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> cathode materials: A focused review. <i>Ceramics International</i> , <b>2022</b> , 48, 7374-7392	5.1	1
93	Bio self-healing concrete using MICP by an indigenous <i>Bacillus cereus</i> strain isolated from Qatari soil. <i>Construction and Building Materials</i> , <b>2022</b> , 328, 126943	6.7	1
92	Effect of the modified hybrid particle on the corrosion inhibition performance of Polyolefin based coatings for carbon steel. <i>Journal of Science: Advanced Materials and Devices</i> , <b>2022</b> , 100466	4.2	
91	Electrochemical Performance of NaV(PO) <sub>4</sub> F Electrode Material in a Symmetric Cell. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	1
90	Bond performance of tensile lap-spliced basalt-FRP reinforcement in high-strength concrete beams. <i>Composite Structures</i> , <b>2021</b> , 114987	5.3	1
89	Multilevel Self-Healing Characteristics of Smart Polymeric Composite Coatings. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 51459-51473	9.5	1
88	A focused review on smart carriers tailored for corrosion protection: Developments, applications, and challenges. <i>Progress in Organic Coatings</i> , <b>2021</b> , 154, 106218	4.8	8
87	Self-Healing Performance of Smart Polymeric Coatings Modified with Tung Oil and Linalyl Acetate. <i>Polymers</i> , <b>2021</b> , 13,	4.5	4
86	Durability characteristics of high and ultra-high performance concretes. <i>Journal of Building Engineering</i> , <b>2021</b> , 33, 101669	5.2	19
85	Improved self-healing performance of polymeric nanocomposites reinforced with talc nanoparticles (TNPs) and urea-formaldehyde microcapsules (UFMCs). <i>Arabian Journal of Chemistry</i> , <b>2021</b> , 14, 102926	5.9	15
84	Cerium oxide loaded with Gum Arabic as environmentally friendly anti-corrosion additive for protection of coated steel. <i>Materials and Design</i> , <b>2021</b> , 198, 109361	8.1	10
83	Sodium and lithium incorporated cathode materials for energy storage applications - A focused review. <i>Journal of Power Sources</i> , <b>2021</b> , 506, 230098	8.9	3
82	Self-healing behavior of epoxy-based double-layer nanocomposite coatings modified with Zirconia nanoparticles. <i>Materials and Design</i> , <b>2021</b> , 207, 109839	8.1	7
81	Effectiveness of Epoxy Coating Modified with Yttrium Oxide Loaded with Imidazole on the Corrosion Protection of Steel. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	2
80	Graphene wrapped Y <sub>2</sub> O <sub>3</sub> coated LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> quasi-spheres as novel cathode materials for lithium-ion batteries. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 14, 1377-1389	5.5	2

79	Mechanical and durability properties of ultra-high performance steel FRC made with discarded materials. <i>Journal of Building Engineering</i> , <b>2021</b> , 44, 103264	5.2	4
78	Electrochemical and thermodynamic study on the corrosion performance of API X120 steel in 3.5% NaCl solution. <i>Scientific Reports</i> , <b>2020</b> , 10, 4314	4.9	24
77	Cellulose microfibers (CMFs) as a smart carrier for autonomous self-healing in epoxy coatings. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 5702-5710	3.6	17
76	Calcium carbonate particles loaded with triethanolamine and polyethylenimine for enhanced corrosion protection of epoxy coated steel. <i>Corrosion Science</i> , <b>2020</b> , 167, 108548	6.8	15
75	Cerium Dioxide Nanoparticles as Smart Carriers for Self-Healing Coatings. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	20
74	Electrochemical behavior of mild and corrosion resistant concrete reinforcing steels. <i>Construction and Building Materials</i> , <b>2020</b> , 232, 117205	6.7	25
73	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> , <b>2020</b> , 139, 105445	4.8	17
72	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> , <b>2020</b> , 137, 48751	2.9	13
71	Improved electrochemical performance of SiO <sub>2</sub> -coated Li-rich layered oxides-Li <sub>1.2</sub> Ni <sub>0.13</sub> Mn <sub>0.54</sub> Co <sub>0.13</sub> O <sub>2</sub> . <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 19475-19484	2.1	4
70	Enhanced mechanical and corrosion protection properties of pulse electrodeposited NiP-ZrO <sub>2</sub> nanocomposite coatings. <i>Surface and Coatings Technology</i> , <b>2020</b> , 403, 126340	4.4	13
69	Smart epoxy coating modified with isophorone diisocyanate microcapsules and cerium organophosphate for multilevel corrosion protection of carbon steel. <i>Progress in Organic Coatings</i> , <b>2020</b> , 147, 105864	4.8	6
68	Synthesis and Performance Evaluation of Na(2-x)Li <sub>x</sub> FeP <sub>2</sub> O <sub>7</sub> (x=0, 0.6) Hybrid Cathodes. <i>ChemistrySelect</i> , <b>2020</b> , 5, 12548-12557	1.8	1
67	Hybrid Halloysite Nanotubes as Smart Carriers for Corrosion Protection. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 37571-37584	9.5	33
66	Self-Healing Performance of Multifunctional Polymeric Smart Coatings. <i>Polymers</i> , <b>2019</b> , 11,	4.5	31
65	Designing and performance evaluation of polyelectrolyte multilayered composite smart coatings. <i>Progress in Organic Coatings</i> , <b>2019</b> , 137, 105319	4.8	14
64	Understanding the Origin of the Ultrahigh Rate Performance of a SiO <sub>2</sub> -Modified LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> Cathode for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 7263-7271	6.1	28
63	Synthesis and properties of polyelectrolyte multilayered microcapsules reinforced smart coatings. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 12079-12094	4.3	24
62	Multifunctional self-healing polymeric nanocomposite coatings for corrosion inhibition of steel. <i>Surface and Coatings Technology</i> , <b>2019</b> , 372, 121-133	4.4	39

61	Development and Properties of Polymeric Nanocomposite Coatings. <i>Polymers</i> , <b>2019</b> , 11,	4.5	22
60	Effect of concentration of DOC loaded TiO <sub>2</sub> nanotubes on the corrosion behavior of smart coatings. <i>Ceramics International</i> , <b>2019</b> , 45, 10492-10500	5.1	17
59	Epoxy coatings modified with a new cerium phosphate inhibitor for smart corrosion protection of steel. <i>Corrosion Science</i> , <b>2019</b> , 159, 108128	6.8	49
58	Corrosion performance of mild steel and epoxy coated rebar in concrete under simulated harsh environment. <i>International Journal of Building Pathology and Adaptation</i> , <b>2019</b> , 37, 657-678	1.6	3
57	Synthesis and characterisation of NiB/NiPO <sub>4</sub> duplex composite coatings. <i>Journal of Applied Electrochemistry</i> , <b>2018</b> , 48, 391-404	2.6	23
56	Advancements in Concrete Mix Designs: High-Performance and Ultrahigh-Performance Concretes from 1970 to 2016. <i>Journal of Materials in Civil Engineering</i> , <b>2018</b> , 30, 04017310	3	21
55	Properties enhancement of Ni-P electrodeposited coatings by the incorporation of nanoscale Y <sub>2</sub> O <sub>3</sub> particles. <i>Applied Surface Science</i> , <b>2018</b> , 457, 956-967	6.7	42
54	Extreme fast charging characteristics of zirconia modified LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> cathode for lithium ion batteries. <i>Journal of Power Sources</i> , <b>2018</b> , 396, 774-781	8.9	42
53	Erosion Behavior of API X120 Steel: Effect of Particle Speed and Impact Angle. <i>Coatings</i> , <b>2018</b> , 8, 343	2.9	7
52	Synthesis and performance evaluation of nanostructured NaFe Cr (SO) cathode materials in sodium ion batteries (SIBs).. <i>RSC Advances</i> , <b>2018</b> , 8, 32985-32991	3.7	10
51	Sodium intercalation/de-intercalation mechanism in Na <sub>4</sub> MnV(PO <sub>4</sub> ) <sub>3</sub> cathode materials. <i>Electrochimica Acta</i> , <b>2018</b> , 292, 98-106	6.7	40
50	Synthesis and electrochemical characterization of Cr-doped lithium-rich Li <sub>1.2</sub> Ni <sub>0.16</sub> Mn <sub>0.56</sub> Co <sub>0.08-x</sub> Cr <sub>x</sub> O <sub>2</sub> cathodes. <i>Emergent Materials</i> , <b>2018</b> , 1, 155-164	3.5	15
49	Surface Characterization of Mild Steel During Atmospheric Corrosion After Being Treated by Sodium Dihydrogen Orthophosphate. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , <b>2018</b> , 54, 926-933	0.9	0
48	Synthesis and Performance Evaluation of Pulse Electrodeposited Ni-AlN Nanocomposite Coatings. <i>Scanning</i> , <b>2018</b> , 2018, 7187024	1.6	4
47	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> , <b>2018</b> , 32, 04018059	2	11
46	A novel classification of prostate specific antigen (PSA) biosensors based on transducing elements. <i>Talanta</i> , <b>2017</b> , 168, 52-61	6.2	26
45	Novel Electrodeposited Ni-B/Y <sub>2</sub> O <sub>3</sub> Composite Coatings with Improved Properties. <i>Coatings</i> , <b>2017</b> , 7, 161	2.9	19
44	Novel Ni Based Duplex Coatings for Anticorrosion Applications. <i>ECS Transactions</i> , <b>2017</b> , 80, 593-602	1	

43	Teaching Design-for-Corrosion to Engineering Undergraduates <b>2017</b> , 1578-1604		
42	A mixed iron-manganese based pyrophosphate cathode, Na <sub>2</sub> Fe <sub>0.5</sub> Mn <sub>0.5</sub> P <sub>2</sub> O <sub>7</sub> , for rechargeable sodium ion batteries. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 3929-35	3.6	33
41	Corrosion Behavior of Carbon Steel in CO <sub>2</sub> Saturated Amine and Imidazolium-, Ammonium-, and Phosphonium-Based Ionic Liquid Solutions. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 446-454	3.9	20
40	Surface characterization of mild steel exposed to atmosphere after being treated by sodium benzoate and dicyclohexylamine nitrite. <i>Anti-Corrosion Methods and Materials</i> , <b>2016</b> , 63, 337-346	0.8	3
39	Microstructure and properties of Ni-Co-TiO <sub>2</sub> composite coatings fabricated by electroplating. <i>International Journal of Modern Physics B</i> , <b>2015</b> , 29, 1540008	1.1	6
38	Microstructure and properties of sol-enhanced Ni-Co-TiO <sub>2</sub> nano-composite coatings on mild steel. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 649, 222-228	5.7	47
37	Preparation and property of duplex Ni-Co-TiO <sub>2</sub> /Ni nano-composite coatings. <i>International Journal of Modern Physics B</i> , <b>2015</b> , 29, 1540022	1.1	8
36	Poreless Separator and Electrolyte Additive for Lithium-Sulfur Batteries with High Areal Energy Densities. <i>ChemNanoMat</i> , <b>2015</b> , 1, 240-245	3.5	39
35	Duplex Ni-P-ZrO <sub>2</sub> /Ni electroless coating on stainless steel. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 630, 189-194	5.7	43
34	Teaching Design-for-Corrosion to Engineering Undergraduates. <i>Advances in Chemical and Materials Engineering Book Series</i> , <b>2015</b> , 21-45	0.2	
33	Synthesis and properties of electrodeposited Ni-Co-TiO <sub>2</sub> composite coatings. <i>Materials &amp; Design</i> , <b>2014</b> , 59, 421-429		69
32	Properties of electrodeposited Ni-Al <sub>2</sub> O <sub>3</sub> composite coatings. <i>Materials &amp; Design</i> , <b>2014</b> , 64, 127-135		59
31	Hierarchical porous carbon by ultrasonic spray pyrolysis yields stable cycling in lithium-sulfur battery. <i>Nano Letters</i> , <b>2014</b> , 14, 4418-25	11.5	214
30	Second law analysis of a gravity-driven liquid film flowing along an inclined plate subjected to constant wall temperature. <i>International Journal of Exergy</i> , <b>2014</b> , 14, 156	1.2	3
29	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> , <b>2013</b> , 135, 2787-92	16.4	131
28	Na <sub>2</sub> FeP <sub>2</sub> O <sub>7</sub> as a Promising Iron-Based Pyrophosphate Cathode for Sodium Rechargeable Batteries: A Combined Experimental and Theoretical Study. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 1147-1155	15.6	250
27	Characterization of untreated and treated male and female date palm leaves. <i>Materials &amp; Design</i> , <b>2013</b> , 43, 526-531		42
26	Corrosion of inhibitor treated mild steel immersed in distilled water and a simulated salt solution. <i>Anti-Corrosion Methods and Materials</i> , <b>2013</b> , 60, 227-233	0.8	6

25	An Overview of Solid Waste Management and Plastic Recycling in Qatar. <i>Journal of Polymers and the Environment</i> , <b>2012</b> , 20, 186-194	4.5	88
24	Date palm wood flour/glass fibre reinforced hybrid composites of recycled polypropylene: Mechanical and thermal properties. <i>Materials &amp; Design</i> , <b>2012</b> , 42, 289-294		116
23	Processing and Characterization of Palm Fiber-Polypropylene Composites. <i>Key Engineering Materials</i> , <b>2011</b> , 471-472, 145-150	0.4	
22	Life Cycle Assessment of Particulate Recycled Low Density Polyethylene and Recycled Polypropylene Reinforced with Talc and Fiberglass. <i>Key Engineering Materials</i> , <b>2011</b> , 471-472, 999-1004	0.4	8
21	Second law analysis of compressible flow through a diffuser subjected to constant wall temperature. <i>International Journal of Exergy</i> , <b>2010</b> , 7, 110	1.2	1
20	Second law analysis of compressible flow through a diffuser subjected to constant heat flux at wall. <i>Energy Conversion and Management</i> , <b>2010</b> , 51, 2808-2815	10.6	3
19	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> , <b>2008</b> , 205, 183-189	5.3	143
18	Concentration Dependence of Moisture Diffusivity in Aluminum Particle Filled Epoxy Adhesive in Salt Solutions <b>2007</b> , 83, 183-194		3
17	Moisture diffusion into palm/polypropylene composites in sodium chloride solutions. <i>Journal of Applied Polymer Science</i> , <b>2007</b> , 106, 2575-2579	2.9	2
16	Moisture diffusion into epoxy adhesive: testing and modeling. <i>Adsorption</i> , <b>2007</b> , 13, 115-120	2.6	17
15	Moisture Absorption Behavior of Palm/Polypropylene Composites in Distilled Water and Sea Water. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , <b>2007</b> , 56, 43-53	3	4
14	Moisture diffusion into aluminum powder-filled epoxy adhesive in sodium chloride solutions. <i>International Journal of Adhesion and Adhesives</i> , <b>2005</b> , 25, 337-341	3.4	30
13	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> , <b>2005</b> , 98, 1165-1171	2.9	8
12	Effect of inhibitor treatment on corrosion of steel in a salt solution. <i>Journal of Materials Engineering and Performance</i> , <b>2003</b> , 12, 524-528	1.6	11
11	Numerical and experimental investigation of melting of ice involving natural convection. <i>International Journal of Energy Research</i> , <b>2002</b> , 26, 347-354	4.5	4
10	Inhibition of atmospheric corrosion of mild steel by sodium benzoate treatment. <i>Journal of Materials Engineering and Performance</i> , <b>2002</b> , 11, 46-50	1.6	12
9	Effect of fouling on operational cost in pipe flow due to entropy generation. <i>Energy Conversion and Management</i> , <b>2000</b> , 41, 1485-1496	10.6	23
8	Pellet Breakup Due to Pressure Generated during Wood Pyrolysis. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2000</b> , 39, 3255-3263	3.9	19

7	Absorption of CO <sub>2</sub> Laser Beam in Relation to Laser Cutting Process. <i>Japanese Journal of Applied Physics</i> , <b>1997</b> , 36, 2689-2697	1.4	4
6	Transverse Fracture Study of a Ceramic Composite by Double Torsion Technique under Oxidizing Conditions. <i>Journal of Composite Materials</i> , <b>1997</b> , 31, 2038-2051	2.7	0
5	Studies on a terephthalic acid and dihydroxydiphenyl sulfone liquid crystalline copolymer and its composites with different thermoplastics. <i>Journal of Applied Polymer Science</i> , <b>1997</b> , 64, 645-652	2.9	8
4	Influence of Fiber-Matrix Bond Strength on the Performance of Nicalon/CAS-II Composite. <i>Journal of Composite Materials</i> , <b>1996</b> , 30, 864-884	2.7	3
3	Investigation by Auger spectroscopy of the composition and surface oxidation characteristics of oxygen saturated zirconium. <i>Applied Surface Science</i> , <b>1989</b> , 35, 302-316	6.7	12
2	An Auger spectroscopic investigation of the high temperature reduction of zirconium dioxide surfaces in vacuum. <i>Applied Surface Science</i> , <b>1989</b> , 37, 327-336	6.7	14
1	Utilization of symmetric electrode materials in energy storage application: A review. <i>International Journal of Energy Research</i> ,	4.5	0