

# Ramazan Kahraman

## List of Publications by Citations

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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 | 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       |
| 95 | 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       |
| 94 | 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       |
| 93 | 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       |
| 92 | 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       |
| 91 | 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        |
| 90 | Synthesis and properties of electrodeposited NiB/CeO <sub>2</sub> composite coatings. <i>Materials &amp; Design</i> , <b>2014</b> , 59, 421-429  |      | 69        |
| 89 | Properties of electrodeposited NiB/Al <sub>2</sub> O <sub>3</sub> composite coatings. <i>Materials &amp; Design</i> , <b>2014</b> , 64, 127-135  |      | 59        |
| 88 | 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        |
| 87 | 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        |
| 86 | Duplex NiB/ZrO <sub>2</sub> /NiB electroless coating on stainless steel. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 630, 189-194   | 5.7  | 43        |
| 85 | 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        |
| 84 | 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        |
| 83 | Characterization of untreated and treated male and female date palm leaves. <i>Materials &amp; Design</i> , <b>2013</b> , 43, 526-531  |      | 42        |
| 82 | 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        |
| 81 | 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        |
| 80 | 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        |

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|----|---|------|----|
| 79 | A mixed iron-manganese based pyrophosphate cathode, $\text{Na}_2\text{Fe}_0.5\text{Mn}_0.5\text{P}_2\text{O}_7$ , for rechargeable sodium ion batteries. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 3929-35       | 3.6  | 33 |
| 78 | 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 |
| 77 | Self-Healing Performance of Multifunctional Polymeric Smart Coatings. <i>Polymers</i> , <b>2019</b> , 11,   | 4.5  | 31 |
| 76 | 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 |
| 75 | Understanding the Origin of the Ultrahigh Rate Performance of a $\text{SiO}_2$ -Modified $\text{LiNi}_0.5\text{Mn}_1.5\text{O}_4$ Cathode for Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 7263-7271 | 6.1  | 28 |
| 74 | 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 |
| 73 | Electrochemical behavior of mild and corrosion resistant concrete reinforcing steels. <i>Construction and Building Materials</i> , <b>2020</b> , 232, 117205  | 6.7  | 25 |
| 72 | 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 |
| 71 | 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 |
| 70 | Synthesis and characterisation of $\text{NiB}/\text{NiPtCeO}_2$ duplex composite coatings. <i>Journal of Applied Electrochemistry</i> , <b>2018</b> , 48, 391-404   | 2.6  | 23 |
| 69 | 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 |
| 68 | Development and Properties of Polymeric Nanocomposite Coatings. <i>Polymers</i> , <b>2019</b> , 11,   | 4.5  | 22 |
| 67 | 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 |
| 66 | Cerium Dioxide Nanoparticles as Smart Carriers for Self-Healing Coatings. <i>Nanomaterials</i> , <b>2020</b> , 10,  | 5.4  | 20 |
| 65 | Corrosion Behavior of Carbon Steel in $\text{CO}_2$ 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 |
| 64 | Novel Electrodeposited $\text{Ni-B}/\text{Y}_2\text{O}_3$ Composite Coatings with Improved Properties. <i>Coatings</i> , <b>2017</b> , 7, 161   | 2.9  | 19 |
| 63 | 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 |
| 62 | Durability characteristics of high and ultra-high performance concretes. <i>Journal of Building Engineering</i> , <b>2021</b> , 33, 101669  | 5.2  | 19 |

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|----|--|-----|----|
| 61 | 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 |
| 60 | Cellulose microfibrils (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 |
| 59 | Moisture diffusion into epoxy adhesive: testing and modeling. <i>Adsorption</i> , <b>2007</b> , 13, 115-120  | 2.6 | 17 |
| 58 | 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 |
| 57 | 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 |
| 56 | 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 |
| 55 | 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 |
| 54 | Designing and performance evaluation of polyelectrolyte multilayered composite smart coatings. <i>Progress in Organic Coatings</i> , <b>2019</b> , 137, 105319   | 4.8 | 14 |
| 53 | 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 |
| 52 | 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 |
| 51 | 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 |
| 50 | 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 |
| 49 | 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 |
| 48 | 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 |
| 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 | 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 |
| 45 | 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 |
| 44 | Preparation and property of duplex NiB <sub>2</sub> /NiO <sub>2</sub> /Ni nano-composite coatings. <i>International Journal of Modern Physics B</i> , <b>2015</b> , 29, 1540022  | 1.1 | 8  |

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|----|---|------|---|
| 43 | 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 |
| 42 | 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 |
| 41 | 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 |
| 40 | 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 |
| 39 | Erosion Behavior of API X120 Steel: Effect of Particle Speed and Impact Angle. <i>Coatings</i> , <b>2018</b> , 8, 343   | 2.9  | 7 |
| 38 | 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 |
| 37 | Microstructure and properties of Ni <sub>0.05</sub> Co <sub>0.05</sub> Fe <sub>0.1</sub> O <sub>2</sub> composite coatings fabricated by electroplating. <i>International Journal of Modern Physics B</i> , <b>2015</b> , 29, 1540008   | 1.1  | 6 |
| 36 | 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 |
| 35 | 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 |
| 34 | 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 |
| 33 | 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 |
| 32 | 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 |
| 31 | 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 |
| 30 | Self-Healing Performance of Smart Polymeric Coatings Modified with Tung Oil and Linalyl Acetate. <i>Polymers</i> , <b>2021</b> , 13,  | 4.5  | 4 |
| 29 | Synthesis and Performance Evaluation of Pulse Electrodeposited Ni-AlN Nanocomposite Coatings. <i>Scanning</i> , <b>2018</b> , 2018, 7187024   | 1.6  | 4 |
| 28 | 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 |
| 27 | 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 |
| 26 | 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 |

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|----|--|-----|---|
| 25 | 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 |
| 24 | Concentration Dependence of Moisture Diffusivity in Aluminum Particle Filled Epoxy Adhesive in Salt Solutions <b>2007</b> , 83, 183-194  |     | 3 |
| 23 | 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 |
| 22 | 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 |
| 21 | 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 |
| 20 | 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 |
| 19 | 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 |
| 18 | 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 |
| 17 | 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 |
| 16 | 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 |
| 15 | 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 |
| 14 | 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 |
| 13 | 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 |
| 12 | Synthesis and Performance Evaluation of Na(2-x)LixFeP <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 |
| 11 | 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 |
| 10 | 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 |
| 9  | 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 |
| 8  | 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 |

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|---|---|-----|---|
| 7 | 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 |
| 6 | Utilization of symmetric electrode materials in energy storage application: A review. <i>International Journal of Energy Research</i> ,   | 4.5 | 0 |
| 5 | Novel Ni Based Duplex Coatings for Anticorrosion Applications. <i>ECS Transactions</i> , <b>2017</b> , 80, 593-602  | 1   |   |
| 4 | Processing and Characterization of Palm Fiber-Polypropylene Composites. <i>Key Engineering Materials</i> , <b>2011</b> , 471-472, 145-150   | 0.4 |   |
| 3 | Teaching Design-for-Corrosion to Engineering Undergraduates. <i>Advances in Chemical and Materials Engineering Book Series</i> , <b>2015</b> , 21-45  | 0.2 |   |
| 2 | Teaching Design-for-Corrosion to Engineering Undergraduates <b>2017</b> , 1578-1604   |     |   |
| 1 | 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 |   |