

Gedeng Ruan

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.

63

papers

6,108

citations

36

h-index

64

g-index

64

ext. papers

6,709

ext. citations

11.1

avg, IF

5.68

L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 63 | Coal as an abundant source of graphene quantum dots. <i>Nature Communications</i> , 2013 , 4, 2943 | 17.4 | 556 |
| 62 | Edge-oriented MoS ₂ nanoporous films as flexible electrodes for hydrogen evolution reactions and supercapacitor devices. <i>Advanced Materials</i> , 2014 , 26, 8163-8 | 24 | 497 |
| 61 | Porous cobalt-based thin film as a bifunctional catalyst for hydrogen generation and oxygen generation. <i>Advanced Materials</i> , 2015 , 27, 3175-80 | 24 | 406 |
| 60 | A seamless three-dimensional carbon nanotube graphene hybrid material. <i>Nature Communications</i> , 2012 , 3, 1225 | 17.4 | 390 |
| 59 | Graphene nanoribbon and nanostructured SnO ₂ composite anodes for lithium ion batteries. <i>ACS Nano</i> , 2013 , 7, 6001-6 | 16.7 | 384 |
| 58 | Growth of graphene from food, insects, and waste. <i>ACS Nano</i> , 2011 , 5, 7601-7 | 16.7 | 384 |
| 57 | High-Performance Pseudocapacitive Microsupercapacitors from Laser-Induced Graphene. <i>Advanced Materials</i> , 2016 , 28, 838-45 | 24 | 335 |
| 56 | Efficient electrocatalytic oxygen evolution on amorphous nickel-cobalt binary oxide nanoporous layers. <i>ACS Nano</i> , 2014 , 8, 9518-23 | 16.7 | 310 |
| 55 | Cobalt nanoparticles embedded in nitrogen-doped carbon for the hydrogen evolution reaction. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 8083-7 | 9.5 | 158 |
| 54 | Rebar graphene. <i>ACS Nano</i> , 2014 , 8, 5061-8 | 16.7 | 155 |
| 53 | Three-dimensional nanoporous Fe ₃ O ₄ /Fe ₃ C-graphene heterogeneous thin films for lithium-ion batteries. <i>ACS Nano</i> , 2014 , 8, 3939-46 | 16.7 | 151 |
| 52 | Highly transparent nonvolatile resistive memory devices from silicon oxide and graphene. <i>Nature Communications</i> , 2012 , 3, 1101 | 17.4 | 146 |
| 51 | Hydrothermally formed three-dimensional nanoporous Ni(OH) ₂ thin-film supercapacitors. <i>ACS Nano</i> , 2014 , 8, 9622-8 | 16.7 | 130 |
| 50 | Towards hybrid superlattices in graphene. <i>Nature Communications</i> , 2011 , 2, 559 | 17.4 | 130 |
| 49 | Enhanced Cycling Stability of Lithium-Ion Batteries Using Graphene-Wrapped Fe ₃ O ₄ -Graphene Nanoribbons as Anode Materials. <i>Advanced Energy Materials</i> , 2015 , 5, 1500171 | 21.8 | 113 |
| 48 | Functionalized low defect graphene nanoribbons and polyurethane composite film for improved gas barrier and mechanical performances. <i>ACS Nano</i> , 2013 , 7, 10380-6 | 16.7 | 109 |
| 47 | Flexible three-dimensional nanoporous metal-based energy devices. <i>Journal of the American Chemical Society</i> , 2014 , 136, 6187-90 | 16.4 | 99 |

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| 46 | Vertically Aligned WS ₂ Nanosheets for Water Splitting. <i>Advanced Functional Materials</i> , 2015 , 25, 6199-6204 | 16.7 | 98 |
| 45 | Asphalt-derived high surface area activated porous carbons for carbon dioxide capture. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 1376-82 | 9.5 | 91 |
| 44 | Flexible Nanoporous WO _{3-x} Nonvolatile Memory Device. <i>ACS Nano</i> , 2016 , 10, 7598-603 | 16.7 | 87 |
| 43 | Nitrogen-doped carbonized cotton for highly flexible supercapacitors. <i>Carbon</i> , 2016 , 105, 260-267 | 10.4 | 85 |
| 42 | Graphene nanoribbon/V ₂ O ₅ cathodes in lithium-ion batteries. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 9590-4 | 9.5 | 83 |
| 41 | Graphene-Ni-FeMnO ₂ and -Cu-FeMnO ₂ nanowire blends as highly active non-precious metal catalysts for the oxygen reduction reaction. <i>Chemical Communications</i> , 2012 , 48, 7931-3 | 5.8 | 76 |
| 40 | Enhanced cycling stability of lithium sulfur batteries using sulfur-polyaniline-graphene nanoribbon composite cathodes. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 15033-9 | 9.5 | 69 |
| 39 | Splitting of a vertical multiwalled carbon nanotube carpet to a graphene nanoribbon carpet and its use in supercapacitors. <i>ACS Nano</i> , 2013 , 7, 5151-9 | 16.7 | 69 |
| 38 | Use of isotope differential derivatization for simultaneous determination of thiols and oxidized thiols by liquid chromatography tandem mass spectrometry. <i>Analytical Biochemistry</i> , 2011 , 416, 159-66 | 3.1 | 67 |
| 37 | Biochar as a renewable source for high-performance CO ₂ sorbent. <i>Carbon</i> , 2016 , 107, 344-351 | 10.4 | 65 |
| 36 | Hybrid organic-inorganic silica monolith with hydrophobic/strong cation-exchange functional groups as a sorbent for micro-solid phase extraction. <i>Journal of Chromatography A</i> , 2009 , 1216, 7739-46 | 4.5 | 60 |
| 35 | Nanoporous silicon oxide memory. <i>Nano Letters</i> , 2014 , 14, 4694-9 | 11.5 | 56 |
| 34 | Evaluating polymer monolith in-tube solid-phase microextraction coupled to liquid chromatography/quadrupole time-of-flight mass spectrometry for reliable quantification and confirmation of quinolone antibacterials in edible animal food. <i>Journal of Chromatography A</i> , 2009 , 1216, 7510-9 | 4.5 | 55 |
| 33 | Three-dimensional thin film for lithium-ion batteries and supercapacitors. <i>ACS Nano</i> , 2014 , 8, 7279-87 | 16.7 | 46 |
| 32 | Sandwich structured graphene-wrapped FeS-graphene nanoribbons with improved cycling stability for lithium ion batteries. <i>Nano Research</i> , 2016 , 9, 2904-2911 | 10 | 45 |
| 31 | Three-Dimensional Networked Nanoporous Ta ₂ O _{5-x} Memory System for Ultrahigh Density Storage. <i>Nano Letters</i> , 2015 , 15, 6009-14 | 11.5 | 39 |
| 30 | Unimolecular Submersible Nanomachines. Synthesis, Actuation, and Monitoring. <i>Nano Letters</i> , 2015 , 15, 8229-39 | 11.5 | 38 |
| 29 | Tungsten-based porous thin-films for electrocatalytic hydrogen generation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 5798-5804 | 13 | 38 |

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| 28 | Highly stable carbon nanoparticles designed for downhole hydrocarbon detection. <i>Energy and Environmental Science</i> , 2012 , 5, 8304 | 35.4 | 38 |
| 27 | Graphene on Metal Grids as the Transparent Conductive Material for Dye Sensitized Solar Cell. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 25863-25868 | 3.8 | 32 |
| 26 | Carbon-Free Electrocatalyst for Oxygen Reduction and Oxygen Evolution Reactions. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 20607-11 | 9.5 | 31 |
| 25 | Functionalized graphene nanoribbons via anionic polymerization initiated by alkali metal-intercalated carbon nanotubes. <i>ACS Nano</i> , 2013 , 7, 2669-75 | 16.7 | 28 |
| 24 | Adsorption and precipitation of scale inhibitors on shale formations. <i>Journal of Petroleum Science and Engineering</i> , 2015 , 136, 32-40 | 4.4 | 27 |
| 23 | Solubility Measurements and Predictions of Gypsum, Anhydrite, and Calcite Over Wide Ranges of Temperature, Pressure, and Ionic Strength with Mixed Electrolytes. <i>Rock Mechanics and Rock Engineering</i> , 2017 , 50, 327-339 | 5.7 | 27 |
| 22 | Phosphino-polycarboxylic acid modified inhibitor nanomaterial for oilfield scale control: Synthesis, characterization and migration. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 45, 366-374 | 6.3 | 25 |
| 21 | Development and Application of a New Theoretical Model for Additive Impacts on Mineral Crystallization. <i>Crystal Growth and Design</i> , 2017 , 17, 4006-4014 | 3.5 | 24 |
| 20 | Carbon-based nanoreporters designed for subsurface hydrogen sulfide detection. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 7652-8 | 9.5 | 23 |
| 19 | Segregation of Amphiphilic Polymer-Coated Nanoparticles to Bicontinuous Oil/Water Microemulsion Phases. <i>Energy & Fuels</i> , 2017 , 31, 1339-1346 | 4.1 | 22 |
| 18 | Determination of adsorption isotherm parameters with correlated errors by measurement error models. <i>Chemical Engineering Journal</i> , 2015 , 281, 921-930 | 14.7 | 22 |
| 17 | Growth and Transfer of Seamless 3D Graphene-Nanotube Hybrids. <i>Nano Letters</i> , 2016 , 16, 1287-92 | 11.5 | 22 |
| 16 | An assay method to determine mineral scale inhibitor efficiency in produced water. <i>Journal of Petroleum Science and Engineering</i> , 2016 , 143, 103-112 | 4.4 | 21 |
| 15 | Mechanistic understanding of calcium-phosphonate solid dissolution and scale inhibitor return behavior in oilfield reservoir: formation of middle phase. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 21458-68 | 3.6 | 20 |
| 14 | Effect of anchor and functional groups in functionalized graphene devices. <i>Nano Research</i> , 2013 , 6, 138-148 | 14.8 | 19 |
| 13 | Barite scale formation and inhibition in laminar and turbulent flow: A rotating cylinder approach. <i>Journal of Petroleum Science and Engineering</i> , 2017 , 149, 183-192 | 4.4 | 18 |
| 12 | New Approach to Study Iron Sulfide Precipitation Kinetics, Solubility, and Phase Transformation. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 9016-9027 | 3.9 | 17 |
| 11 | Calcite and Barite Solubility Measurements in Mixed Electrolyte Solutions and Development of a Comprehensive Model for Water-Mineral-Gas Equilibrium of the Na-K-Mg-Ca-Ba-Sr-Cl-SO ₄ -CO ₃ -HCO ₃ -CO ₂ (aq)-H ₂ O System up to 250 °C and 1500 bar. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 6548-6561 | 3.9 | 15 |

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| 10 | Two-Stage Model Reveals Barite Crystallization Kinetics from Solution Turbidity. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 10864-10874 | 3.9 | 14 |
| 9 | Functional scale inhibitor nanoparticle capsule delivery vehicles for oilfield mineral scale control. <i>RSC Advances</i> , 2016 , 6, 43016-43027 | 3.7 | 12 |
| 8 | Mineral Precipitation Kinetics: Assessing the Effect of Hydrostatic Pressure and Its Implication on the Nucleation Mechanism. <i>Crystal Growth and Design</i> , 2016 , 16, 4846-4854 | 3.5 | 7 |
| 7 | Scaling Risk and Inhibition Prediction of Carbonate Scale at High Temperature 2017 , | | 7 |
| 6 | Calcium Sulfate Scaling Risk and Inhibition for a Steamflood Project. <i>SPE Journal</i> , 2017 , 22, 881-891 | 3.1 | 5 |
| 5 | Facile one-pot synthesis of metal-phosphonate colloidal scale inhibitor: Synthesis and laboratory evaluation. <i>Fuel</i> , 2020 , 282, 118855 | 7.1 | 4 |
| 4 | Transport and return of an oilfield scale inhibitor reverse micelle nanofluid: impact of preflush and overflush. <i>RSC Advances</i> , 2016 , 6, 66672-66681 | 3.7 | 4 |
| 3 | Acid/base and metal complex solution chemistry of sulfonated polyacrylate copolymer versus temperature and ionic strength. <i>Applied Geochemistry</i> , 2017 , 76, 1-8 | 3.5 | 2 |
| 2 | Scale Formation and Control Under Turbulent Conditions 2016 , | | 1 |
| 1 | Sodium chloride (halite) mineral scale threat assessment and scale inhibitor evaluation by two common jar test based methods. <i>Journal of Water Process Engineering</i> , 2021 , 43, 102241 | 6.7 | 1 |