

# Gedeng Ruan

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/5999208/gedeng-ruan-publications-by-year.pdf>

**Version:** 2024-04-18

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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> , <b>2021</b> , 43, 102241	6.7	1
62	Facile one-pot synthesis of metal-phosphonate colloidal scale inhibitor: Synthesis and laboratory evaluation. <i>Fuel</i> , <b>2020</b> , 282, 118855	7.1	4
61	Two-Stage Model Reveals Barite Crystallization Kinetics from Solution Turbidity. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 10864-10874	3.9	14
60	Segregation of Amphiphilic Polymer-Coated Nanoparticles to Bicontinuous Oil/Water Microemulsion Phases. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 1339-1346	4.1	22
59	Acid/base and metal complex solution chemistry of sulfonated polyacrylate copolymer versus temperature and ionic strength. <i>Applied Geochemistry</i> , <b>2017</b> , 76, 1-8	3.5	2
58	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 <sub>4</sub> -CO <sub>3</sub> -HCO <sub>3</sub> -CO <sub>2</sub> (aq)-H <sub>2</sub> O System up to 250 °C and 1500 bar. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 6548-6561	3.9	15
57	Development and Application of a New Theoretical Model for Additive Impacts on Mineral Crystallization. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 4006-4014	3.5	24
56	New Approach to Study Iron Sulfide Precipitation Kinetics, Solubility, and Phase Transformation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 9016-9027	3.9	17
55	Scaling Risk and Inhibition Prediction of Carbonate Scale at High Temperature <b>2017</b> ,		7
54	Calcium Sulfate Scaling Risk and Inhibition for a Steamflood Project. <i>SPE Journal</i> , <b>2017</b> , 22, 881-891	3.1	5
53	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> , <b>2017</b> , 50, 327-339	5.7	27
52	Barite scale formation and inhibition in laminar and turbulent flow: A rotating cylinder approach. <i>Journal of Petroleum Science and Engineering</i> , <b>2017</b> , 149, 183-192	4.4	18
51	Phosphino-polycarboxylic acid modified inhibitor nanomaterial for oilfield scale control: Synthesis, characterization and migration. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2017</b> , 45, 366-374	6.3	25
50	Mineral Precipitation Kinetics: Assessing the Effect of Hydrostatic Pressure and Its Implication on the Nucleation Mechanism. <i>Crystal Growth and Design</i> , <b>2016</b> , 16, 4846-4854	3.5	7
49	Sandwich structured graphene-wrapped FeS-graphene nanoribbons with improved cycling stability for lithium ion batteries. <i>Nano Research</i> , <b>2016</b> , 9, 2904-2911	10	45
48	High-Performance Pseudocapacitive Microsupercapacitors from Laser-Induced Graphene. <i>Advanced Materials</i> , <b>2016</b> , 28, 838-45	24	335
47	Biochar as a renewable source for high-performance CO <sub>2</sub> sorbent. <i>Carbon</i> , <b>2016</b> , 107, 344-351	10.4	65

46	Growth and Transfer of Seamless 3D Graphene-Nanotube Hybrids. <i>Nano Letters</i> , <b>2016</b> , 16, 1287-92	11.5	22
45	An assay method to determine mineral scale inhibitor efficiency in produced water. <i>Journal of Petroleum Science and Engineering</i> , <b>2016</b> , 143, 103-112	4.4	21
44	Transport and return of an oilfield scale inhibitor reverse micelle nanofluid: impact of preflush and overflush. <i>RSC Advances</i> , <b>2016</b> , 6, 66672-66681	3.7	4
43	Nitrogen-doped carbonized cotton for highly flexible supercapacitors. <i>Carbon</i> , <b>2016</b> , 105, 260-267	10.4	85
42	Functional scale inhibitor nanoparticle capsule delivery vehicles for oilfield mineral scale control. <i>RSC Advances</i> , <b>2016</b> , 6, 43016-43027	3.7	12
41	Scale Formation and Control Under Turbulent Conditions <b>2016</b> ,		1
40	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> , <b>2016</b> , 18, 21458-68	3.6	20
39	Flexible Nanoporous WO <sub>3</sub> -x Nonvolatile Memory Device. <i>ACS Nano</i> , <b>2016</b> , 10, 7598-603	16.7	87
38	Determination of adsorption isotherm parameters with correlated errors by measurement error models. <i>Chemical Engineering Journal</i> , <b>2015</b> , 281, 921-930	14.7	22
37	Porous cobalt-based thin film as a bifunctional catalyst for hydrogen generation and oxygen generation. <i>Advanced Materials</i> , <b>2015</b> , 27, 3175-80	24	406
36	Cobalt nanoparticles embedded in nitrogen-doped carbon for the hydrogen evolution reaction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 8083-7	9.5	158
35	Adsorption and precipitation of scale inhibitors on shale formations. <i>Journal of Petroleum Science and Engineering</i> , <b>2015</b> , 136, 32-40	4.4	27
34	Three-Dimensional Networked Nanoporous Ta <sub>2</sub> O <sub>5</sub> (5-x) Memory System for Ultrahigh Density Storage. <i>Nano Letters</i> , <b>2015</b> , 15, 6009-14	11.5	39
33	Carbon-Free Electrocatalyst for Oxygen Reduction and Oxygen Evolution Reactions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 20607-11	9.5	31
32	Unimolecular Submersible Nanomachines. Synthesis, Actuation, and Monitoring. <i>Nano Letters</i> , <b>2015</b> , 15, 8229-39	11.5	38
31	Vertically Aligned WS <sub>2</sub> Nanosheets for Water Splitting. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 6199-6204	10.6	98
30	Enhanced Cycling Stability of Lithium-Ion Batteries Using Graphene-Wrapped Fe <sub>3</sub> O <sub>4</sub> -Graphene Nanoribbons as Anode Materials. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1500171	21.8	113
29	Tungsten-based porous thin-films for electrocatalytic hydrogen generation. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 5798-5804	13	38

28	Asphalt-derived high surface area activated porous carbons for carbon dioxide capture. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 1376-82	9.5	91
27	Rebar graphene. <i>ACS Nano</i> , <b>2014</b> , 8, 5061-8	16.7	155
26	Three-dimensional nanoporous Fe <sub>3</sub> O <sub>4</sub> /Fe <sub>3</sub> C-graphene heterogeneous thin films for lithium-ion batteries. <i>ACS Nano</i> , <b>2014</b> , 8, 3939-46	16.7	151
25	Edge-oriented MoS <sub>2</sub> nanoporous films as flexible electrodes for hydrogen evolution reactions and supercapacitor devices. <i>Advanced Materials</i> , <b>2014</b> , 26, 8163-8	24	497
24	Graphene on Metal Grids as the Transparent Conductive Material for Dye Sensitized Solar Cell. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 25863-25868	3.8	32
23	Enhanced cycling stability of lithium sulfur batteries using sulfur-polyaniline-graphene nanoribbon composite cathodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 15033-9	9.5	69
22	Carbon-based nanoreporters designed for subsurface hydrogen sulfide detection. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 7652-8	9.5	23
21	Hydrothermally formed three-dimensional nanoporous Ni(OH) <sub>2</sub> thin-film supercapacitors. <i>ACS Nano</i> , <b>2014</b> , 8, 9622-8	16.7	130
20	Efficient electrocatalytic oxygen evolution on amorphous nickel-cobalt binary oxide nanoporous layers. <i>ACS Nano</i> , <b>2014</b> , 8, 9518-23	16.7	310
19	Nanoporous silicon oxide memory. <i>Nano Letters</i> , <b>2014</b> , 14, 4694-9	11.5	56
18	Graphene nanoribbon/V <sub>2</sub> O <sub>5</sub> cathodes in lithium-ion batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 9590-4	9.5	83
17	Three-dimensional thin film for lithium-ion batteries and supercapacitors. <i>ACS Nano</i> , <b>2014</b> , 8, 7279-87	16.7	46
16	Flexible three-dimensional nanoporous metal-based energy devices. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 6187-90	16.4	99
15	Effect of anchor and functional groups in functionalized graphene devices. <i>Nano Research</i> , <b>2013</b> , 6, 138-148	16.8	19
14	Functionalized low defect graphene nanoribbons and polyurethane composite film for improved gas barrier and mechanical performances. <i>ACS Nano</i> , <b>2013</b> , 7, 10380-6	16.7	109
13	Coal as an abundant source of graphene quantum dots. <i>Nature Communications</i> , <b>2013</b> , 4, 2943	17.4	556
12	Functionalized graphene nanoribbons via anionic polymerization initiated by alkali metal-intercalated carbon nanotubes. <i>ACS Nano</i> , <b>2013</b> , 7, 2669-75	16.7	28
11	Splitting of a vertical multiwalled carbon nanotube carpet to a graphene nanoribbon carpet and its use in supercapacitors. <i>ACS Nano</i> , <b>2013</b> , 7, 5151-9	16.7	69

10	Graphene nanoribbon and nanostructured SnO <sub>2</sub> composite anodes for lithium ion batteries. <i>ACS Nano</i> , <b>2013</b> , 7, 6001-6	16.7	384
9	A seamless three-dimensional carbon nanotube graphene hybrid material. <i>Nature Communications</i> , <b>2012</b> , 3, 1225	17.4	390
8	Highly transparent nonvolatile resistive memory devices from silicon oxide and graphene. <i>Nature Communications</i> , <b>2012</b> , 3, 1101	17.4	146
7	Graphene-Ni-MnO <sub>2</sub> and -Cu-MnO <sub>2</sub> nanowire blends as highly active non-precious metal catalysts for the oxygen reduction reaction. <i>Chemical Communications</i> , <b>2012</b> , 48, 7931-3	5.8	76
6	Highly stable carbon nanoparticles designed for downhole hydrocarbon detection. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 8304	35.4	38
5	Growth of graphene from food, insects, and waste. <i>ACS Nano</i> , <b>2011</b> , 5, 7601-7	16.7	384
4	Towards hybrid superlattices in graphene. <i>Nature Communications</i> , <b>2011</b> , 2, 559	17.4	130
3	Use of isotope differential derivatization for simultaneous determination of thiols and oxidized thiols by liquid chromatography tandem mass spectrometry. <i>Analytical Biochemistry</i> , <b>2011</b> , 416, 159-66	3.1	67
2	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> , <b>2009</b> , 1216, 7510-9	4.5	55
1	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> , <b>2009</b> , 1216, 7739-46	4.5	60