

# Si-Yong Gu

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/9078630/si-yong-gu-publications-by-year.pdf>

**Version:** 2024-04-10

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.

43 papers	571 citations	14 h-index	22 g-index
43 ext. papers	814 ext. citations	5.2 avg, IF	4.36 L-index

#	Paper	IF	Citations
43	Hexagonal boron nitride nanosheets as metal-free electrochemical catalysts for oxygen reduction reactions. <i>Ceramics International</i> , <b>2022</b> , 48, 9506-9517	5.1	0
42	Effect of Solvent on Fluorescence Emission from Polyethylene Glycol-Coated Graphene Quantum Dots under Blue Light Illumination. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	4
41	Fluorescent nitrogen-doped carbon nanodots synthesized through a hydrothermal method with different isomers. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2021</b> , 123, 302-302	5.3	7
40	Highly fluorescent green and red emissions from boron-doped graphene quantum dots under blue light illumination. <i>Carbon</i> , <b>2021</b> , 176, 61-70	10.4	10
39	Roll-to-roll atomic layer deposition of titania coating on polymeric separators for lithium ion batteries. <i>Journal of Power Sources</i> , <b>2021</b> , 482, 228896	8.9	19
38	Solvothermal preparation of spherical Bi <sub>2</sub> O <sub>3</sub> nanoparticles uniformly distributed on Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> for enhanced capacitive performance. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 5312-5321	5.1	0
37	Electrocatalytic Oxidation of Glucose on Boron and Nitrogen Codoped Graphene Quantum Dot Electrodes in Alkali Media. <i>Catalysts</i> , <b>2021</b> , 11, 101	4	6
36	Highly luminescent aggregate-induced emission from polyethylene glycol-coated carbon quantum dot clusters under blue light illumination. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 16569-16576	7.1	11
35	Non-enzymatic electrochemical detection of hydrogen peroxide on highly amidized graphene quantum dot electrodes. <i>Applied Surface Science</i> , <b>2020</b> , 528, 146936	6.7	9
34	Graphene quantum dot-decorated carbon electrodes for energy storage in vanadium redox flow batteries. <i>Nanoscale</i> , <b>2020</b> , 12, 7834-7842	7.7	11
33	Improved lithium storage capacity and high rate capability of nitrogen-doped graphite-like electrode materials prepared from thermal pyrolysis of graphene quantum dots. <i>Electrochimica Acta</i> , <b>2020</b> , 354, 136642	6.7	9
32	Electrochemical sensing of mercury ions in electrolyte solutions by nitrogen-doped graphene quantum dot electrodes at ultralow concentrations. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 302, 112593	6	17
31	Amino-functionalization on graphene oxide sheets using an atomic layer amidation technique. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 700-705	7.1	5
30	Thermal transport on composite thin films using graphene nanodots and polymeric binder. <i>Thin Solid Films</i> , <b>2020</b> , 693, 137704	2.2	1
29	Decorating sulfur and nitrogen co-doped graphene quantum dots on graphite felt as high-performance electrodes for vanadium redox flow batteries. <i>Journal of Power Sources</i> , <b>2020</b> , 477, 228709	8.9	10
28	Infrared-assisted synthesis of highly amidized graphene quantum dots as metal-free electrochemical catalysts. <i>Electrochimica Acta</i> , <b>2020</b> , 360, 137009	6.7	7
27	Roll-To-Roll Atomic Layer Deposition of Titania Nanocoating on Thermally Stabilizing Lithium Nickel Cobalt Manganese Oxide Cathodes for Lithium Ion Batteries. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 10619-10631	6.1	31

26	Fluorescence of functionalized graphene quantum dots prepared from infrared-assisted pyrolysis of citric acid and urea. <i>Journal of Luminescence</i> , <b>2020</b> , 217, 116774	3.8	32
25	Highly efficient carbon quantum dot suspensions and membranes for sensitive/selective detection and adsorption/recovery of mercury ions from aqueous solutions. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2019</b> , 100, 127-136	5.3	15
24	Preparation of MgCo <sub>2</sub> O <sub>4</sub> /graphite composites as cathode materials for magnesium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , <b>2019</b> , 23, 1399-1407	2.6	10
23	Microwave growth and tunable photoluminescence of nitrogen-doped graphene and carbon nitride quantum dots. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 5468-5476	7.1	47
22	Tailoring fluorescence emissions, quantum yields, and white light emitting from nitrogen-doped graphene and carbon nitride quantum dots. <i>Nanoscale</i> , <b>2019</b> , 11, 16553-16561	7.7	34
21	Synthesis of MgCo <sub>2</sub> O <sub>4</sub> -coated Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> composite anodes using co-precipitation method for lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , <b>2019</b> , 23, 3197-3207	2.6	6
20	Fabrication and Properties of (Ti, W, Mo, Nb, Ta)(C, N)-Co-Ni Cermets. <i>Journal of Materials Engineering and Performance</i> , <b>2019</b> , 28, 7198-7205	1.6	2
19	Sulfur and Nitrogen Co-Doped Graphene Quantum Dots as a Fluorescent Quenching Probe for Highly Sensitive Detection toward Mercury Ions. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 790-798	5.6	44
18	Functionalization of activated carbons with magnetic Iron oxide nanoparticles for removal of copper ions from aqueous solution. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 277, 499-505	6	30
17	One-step electrodeposition synthesis of a NiFe electrode for hydrogen production in alkaline solution. <i>Materials Letters</i> , <b>2018</b> , 227, 124-127	3.3	9
16	Atomic layer oxidation on graphene sheets for tuning their oxidation levels, electrical conductivities, and band gaps. <i>Nanoscale</i> , <b>2018</b> , 10, 15521-15528	7.7	9
15	One-step synthesis of amorphous NiFe alloy as bifunctional electrocatalyst for overall water splitting in alkaline medium. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 12929-12938	6.7	59
14	Fabrication of La <sub>0.05</sub> Uniformly Doped Mo Nanopowders by Solution Combustion Synthesis Followed by Reduction under Hydrogen. <i>Materials</i> , <b>2018</b> , 11,	3.5	4
13	Amino-functionalization of graphene nanosheets by electrochemical exfoliation technique. <i>Diamond and Related Materials</i> , <b>2018</b> , 87, 99-106	3.5	10
12	Tuning oxidation level, electrical conductance and band gap structure on graphene sheets by a cyclic atomic layer reduction technique. <i>Carbon</i> , <b>2018</b> , 137, 234-241	10.4	7
11	Optimization of graphene quantum dots by chemical exfoliation from graphite powders and carbon nanotubes. <i>Materials Chemistry and Physics</i> , <b>2018</b> , 215, 104-111	4.4	12
10	Preparation of Mo nanopowders through hydrogen reduction of a combustion synthesized foam-like MoO <sub>2</sub> precursor. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2018</b> , 76, 90-98	4.1	9
9	Growth Kinetics and Microstructure Evolution of Intermediate Phases in MoSi <sub>2</sub> -Si <sub>3</sub> N <sub>4</sub> -WSi <sub>2</sub> /Mo Diffusion Couples. <i>Journal of Materials Engineering and Performance</i> , <b>2017</b> , 26, 584-589	1.6	

8	Facile solution combustion synthesis of MoO <sub>2</sub> nanoparticles as efficient photocatalysts. <i>CrystEngComm</i> , <b>2017</b> , 19, 6516-6526	3.3	17
7	Thermal Transport on Graphene-Based Thin Films Prepared by Chemical Exfoliations from Carbon Nanotubes and Graphite Powders. <i>Coatings</i> , <b>2017</b> , 7, 138	2.9	1
6	Microwave Deposition of Palladium Catalysts on Graphite Spheres and Reduced Graphene Oxide Sheets for Electrochemical Glucose Sensing. <i>Sensors</i> , <b>2017</b> , 17,	3.8	5
5	Oxidation behavior of (Mo,W)Si <sub>2</sub> Bi <sub>3</sub> N <sub>4</sub> composite coating on molybdenum substrate at 1600 °C. <i>Ceramics International</i> , <b>2015</b> , 41, 14890-14895	5.1	22
4	Effect of carbon nanotubes on the synthesis process of nano-sized Mo powders. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2013</b> , 41, 370-374	4.1	4
3	Preparation and oxidation behavior of MoSi <sub>2</sub> IrSi <sub>2</sub> Bi <sub>3</sub> N <sub>4</sub> composite coating on Mo substrate. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2013</b> , 41, 128-132	4.1	18
2	Fabrication and properties of Ti(C,N) based cermets reinforced by nano-CBN particles. <i>Ceramics International</i> , <b>2012</b> , 38, 4587-4591	5.1	15
1	Mechanical properties and microstructure of Ti(C,N) based cermets reinforced by nano-Si <sub>3</sub> N <sub>4</sub> particles. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2011</b> , 29, 158-162	4.1	21