Si-Yong Gu

List of Publications by Citations

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	One-step synthesis of amorphous NiFeP alloy as bifunctional electrocatalyst for overall water splitting in alkaline medium. *International Journal of Hydrogen Energy*, **2018**, 43, 12929-12938	6.7	59
42	Microwave growth and tunable photoluminescence of nitrogen-doped graphene and carbon nitride quantum dots. *Journal of Materials Chemistry C*, **2019**, 7, 5468-5476	7.1	47
41	Sulfur and Nitrogen Co-Doped Graphene Quantum Dots as a Fluorescent Quenching Probe for Highly Sensitive Detection toward Mercury Ions. *ACS Applied Nano Materials*, **2019**, 2, 790-798	5.6	44
40	Tailoring fluorescence emissions, quantum yields, and white light emitting from nitrogen-doped graphene and carbon nitride quantum dots. *Nanoscale*, **2019**, 11, 16553-16561	7.7	34
39	Fluorescence of functionalized graphene quantum dots prepared from infrared-assisted pyrolysis of citric acid and urea. *Journal of Luminescence*, **2020**, 217, 116774	3.8	32
38	Functionalization of activated carbons with magnetic Iron oxide nanoparticles for removal of copper ions from aqueous solution. *Journal of Molecular Liquids*, **2019**, 277, 499-505	6	30
37	Oxidation behavior of (Mo,W)Si2Si3N4 composite coating on molybdenum substrate at 1600 °C. *Ceramics International*, **2015**, 41, 14890-14895	5.1	22
36	Mechanical properties and microstructure of Ti(C,N) based cermets reinforced by nano-Si3N4 particles. *International Journal of Refractory Metals and Hard Materials*, **2011**, 29, 158-162	4.1	21
35	Roll-to-roll atomic layer deposition of titania coating on polymeric separators for lithium ion batteries. *Journal of Power Sources*, **2021**, 482, 228896	8.9	19
34	Preparation and oxidation behavior of MoSi2CrSi2Si3N4 composite coating on Mo substrate. *International Journal of Refractory Metals and Hard Materials*, **2013**, 41, 128-132	4.1	18
33	Facile solution combustion synthesis of MoO2 nanoparticles as efficient photocatalysts. *CrystEngComm*, **2017**, 19, 6516-6526	3.3	17
32	Electrochemical sensing of mercury ions in electrolyte solutions by nitrogen-doped graphene quantum dot electrodes at ultralow concentrations. *Journal of Molecular Liquids*, **2020**, 302, 112593	6	17
31	Highly efficient carbon quantum dot suspensions and membranes for sensitive/selective detection and adsorption/recovery of mercury ions from aqueous solutions. *Journal of the Taiwan Institute of Chemical Engineers*, **2019**, 100, 127-136	5.3	15
30	Fabrication and properties of Ti(C,N) based cermets reinforced by nano-CBN particles. *Ceramics International*, **2012**, 38, 4587-4591	5.1	15
29	Optimization of graphene quantum dots by chemical exfoliation from graphite powders and carbon nanotubes. *Materials Chemistry and Physics*, **2018**, 215, 104-111	4.4	12
28	Highly luminescent aggregate-induced emission from polyethylene glycol-coated carbon quantum dot clusters under blue light illumination. *Journal of Materials Chemistry C*, **2020**, 8, 16569-16576	7.1	11
27	Graphene quantum dot-decorated carbon electrodes for energy storage in vanadium redox flow batteries. *Nanoscale*, **2020**, 12, 7834-7842	7.7	11

26	Preparation of MgCo2O4/graphite composites as cathode materials for magnesium-ion batteries. *Journal of Solid State Electrochemistry*, **2019**, 23, 1399-1407	2.6	10
25	Decorating sulfur and nitrogen co-doped graphene quantum dots on graphite felt as high-performance electrodes for vanadium redox flow batteries. *Journal of Power Sources*, **2020**, 477, 228709	8.9	10
24	Highly fluorescent green and red emissions from boron-doped graphene quantum dots under blue light illumination. *Carbon*, **2021**, 176, 61-70	10.4	10
23	Amino-functionalization of graphene nanosheets by electrochemical exfoliation technique. *Diamond and Related Materials*, **2018**, 87, 99-106	3.5	10
22	Non-enzymatic electrochemical detection of hydrogen peroxide on highly amidized graphene quantum dot electrodes. *Applied Surface Science*, **2020**, 528, 146936	6.7	9
21	Improved lithium storage capacity and high rate capability of nitrogen-doped graphite-like electrode materials prepared from thermal pyrolysis of graphene quantum dots. *Electrochimica Acta*, **2020**, 354, 136642	6.7	9
20	One-step electrodeposition synthesis of a nifeSn electrode for hydrogen production in alkaline solution. *Materials Letters*, **2018**, 227, 124-127	3.3	9
19	Atomic layer oxidation on graphene sheets for tuning their oxidation levels, electrical conductivities, and band gaps. *Nanoscale*, **2018**, 10, 15521-15528	7.7	9
18	Preparation of Mo nanopowders through hydrogen reduction of a combustion synthesized foam-like MoO2 precursor. *International Journal of Refractory Metals and Hard Materials*, **2018**, 76, 90-98	4.1	9
17	Infrared-assisted synthesis of highly amidized graphene quantum dots as metal-free electrochemical catalysts. *Electrochimica Acta*, **2020**, 360, 137009	6.7	7
16	Fluorescent nitrogen-doped carbon nanodots synthesized through a hydrothermal method with different isomers. *Journal of the Taiwan Institute of Chemical Engineers*, **2021**, 123, 302-302	5.3	7
15	Tuning oxidation level, electrical conductance and band gap structure on graphene sheets by a cyclic atomic layer reduction technique. *Carbon*, **2018**, 137, 234-241	10.4	7
14	Synthesis of MgCo2O4-coated Li4Ti5O12 composite anodes using co-precipitation method for lithium-ion batteries. *Journal of Solid State Electrochemistry*, **2019**, 23, 3197-3207	2.6	6
13	Electrocatalytic Oxidation of Glucose on Boron and Nitrogen Codoped Graphene Quantum Dot Electrodes in Alkali Media. *Catalysts*, **2021**, 11, 101	4	6
12	Microwave Deposition of Palladium Catalysts on Graphite Spheres and Reduced Graphene Oxide Sheets for Electrochemical Glucose Sensing. *Sensors*, **2017**, 17,	3.8	5
11	Amino-functionalization on graphene oxide sheets using an atomic layer amidation technique. *Journal of Materials Chemistry C*, **2020**, 8, 700-705	7.1	5
10	Effect of carbon nanotubes on the synthesis process of nano-sized Mo powders. *International Journal of Refractory Metals and Hard Materials*, **2013**, 41, 370-374	4.1	4
9	Effect of Solvent on Fluorescence Emission from Polyethylene Glycol-Coated Graphene Quantum Dots under Blue Light Illumination. *Nanomaterials*, **2021**, 11,	5.4	4

8	Fabrication of La□□Uniformly Doped Mo Nanopowders by Solution Combustion Synthesis Followed by Reduction under Hydrogen. *Materials*, **2018**, 11,	3.5	4
7	Roll-To-Roll Atomic Layer Deposition of Titania Nanocoating on Thermally Stabilizing Lithium Nickel Cobalt Manganese Oxide Cathodes for Lithium Ion Batteries. *ACS Applied Energy Materials*, **2020**, 3, 10619-10631	6.1	3
6	Fabrication and Properties of (Ti, W, Mo, Nb, Ta)(C, N)-Co-Ni Cermets. *Journal of Materials Engineering and Performance*, **2019**, 28, 7198-7205	1.6	2
5	Thermal Transport on Graphene-Based Thin Films Prepared by Chemical Exfoliations from Carbon Nanotubes and Graphite Powders. *Coatings*, **2017**, 7, 138	2.9	1
4	Thermal transport on composite thin films using graphene nanodots and polymeric binder. *Thin Solid Films*, **2020**, 693, 137704	2.2	1
3	Solvothermal preparation of spherical Bi2O3 nanoparticles uniformly distributed on Ti3C2Tx for enhanced capacitive performance. *Nanoscale Advances*, **2021**, 3, 5312-5321	5.1	0
2	Hexagonal boron nitride nanosheets as metal-free electrochemical catalysts for oxygen reduction reactions. *Ceramics International*, **2022**, 48, 9506-9517	5.1	0
1	Growth Kinetics and Microstructure Evolution of Intermediate Phases in MoSi2-Si3N4-WSi2/Mo Diffusion Couples. *Journal of Materials Engineering and Performance*, **2017**, 26, 584-589	1.6	