

Seung-Hyun Hur

List of Publications by Year in descending order

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96
papers

5,229
citations

94433

37
h-index

88630

70
g-index

97
all docs

97
docs citations

97
times ranked

8329
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of graphene oxide content on the adsorption-enhanced photocatalysis of titanium dioxide/graphene oxide composites. <i>Chemical Engineering Journal</i> , 2011, 170, 226-232.	12.7	393
2	Chemical functionalization of graphene sheets by solvothermal reduction of a graphene oxide suspension in N-methyl-2-pyrrolidone. <i>Journal of Materials Chemistry</i> , 2011, 21, 3371-3377.	6.7	357
3	Highly Efficient Light-Emitting Diode of Graphene Quantum Dots Fabricated from Graphite Intercalation Compounds. <i>Advanced Optical Materials</i> , 2014, 2, 1016-1023.	7.3	229
4	Synthesis of a highly conductive and large surface area graphene oxide hydrogel and its use in a supercapacitor. <i>Journal of Materials Chemistry A</i> , 2013, 1, 208-211.	10.3	217
5	Chemical reduction of an aqueous suspension of graphene oxide by nascent hydrogen. <i>Journal of Materials Chemistry</i> , 2012, 22, 10530.	6.7	211
6	Selective adsorption of organic dyes on graphene oxide: Theoretical and experimental analysis. <i>Applied Surface Science</i> , 2019, 464, 170-177.	6.1	189
7	Material properties of graphene/aluminum metal matrix composites fabricated by friction stir processing. <i>International Journal of Precision Engineering and Manufacturing</i> , 2014, 15, 1235-1239.	2.2	178
8	One-step synthesis of superior dispersion of chemically converted graphene in organic solvents. <i>Chemical Communications</i> , 2010, 46, 4375.	4.1	162
9	Novel Graphene Hydrogel/B α -Doped Graphene Quantum Dots Composites as Trifunctional Electrocatalysts for Zn α -Air Batteries and Overall Water Splitting. <i>Advanced Energy Materials</i> , 2019, 9, 1900945.	19.5	150
10	A highly sensitive enzyme-free glucose sensor based on Co ₃ O ₄ nanoflowers and 3D graphene oxide hydrogel fabricated via hydrothermal synthesis. <i>Sensors and Actuators B: Chemical</i> , 2016, 223, 76-82.	7.8	145
11	Highly sensitive non-enzymatic glucose sensor based on Pt nanoparticle decorated graphene oxide hydrogel. <i>Sensors and Actuators B: Chemical</i> , 2015, 210, 618-623.	7.8	143
12	One pot solid-state synthesis of highly fluorescent N and S co-doped carbon dots and its use as fluorescent probe for Ag ⁺ detection in aqueous solution. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 3284-3291.	7.8	142
13	Fabrication of a novel 2D-graphene/2D-NiO nanosheet-based hybrid nanostructure and its use in highly sensitive NO ₂ sensors. <i>Sensors and Actuators B: Chemical</i> , 2013, 185, 701-705.	7.8	139
14	Micro-scale to nano-scale generators for energy harvesting: Self powered piezoelectric, triboelectric and hybrid devices. <i>Physics Reports</i> , 2019, 792, 1-33.	25.6	111
15	Novel conductive epoxy composites composed of 2-D chemically reduced graphene and 1-D silver nanowire hybrid fillers. <i>Journal of Materials Chemistry</i> , 2012, 22, 8649.	6.7	92
16	Direct Printing of Reduced Graphene Oxide on Planar or Highly Curved Surfaces with High Resolutions Using Electrohydrodynamics. <i>Small</i> , 2015, 11, 2263-2268.	10.0	90
17	Superior conductive polystyrene α chemically converted graphene nanocomposite. <i>Journal of Materials Chemistry</i> , 2011, 21, 11312.	6.7	87
18	Highly-ordered maghemite/reduced graphene oxide nanocomposites for high-performance photoelectrochemical water splitting. <i>RSC Advances</i> , 2015, 5, 29159-29166.	3.6	82

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19	Blue emitting nitrogen-doped carbon dots as a fluorescent probe for nitrite ion sensing and cell-imaging. <i>Analytica Chimica Acta</i> , 2019, 1079, 212-219.	5.4	81
20	Liquid-phase exfoliation of graphene in organic solvents with addition of naphthalene. <i>Journal of Colloid and Interface Science</i> , 2014, 418, 37-42.	9.4	76
21	Graphene and its application in fuel cell catalysis: a review. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2013, 8, 218-233.	1.5	71
22	Highly biocompatible phenylboronic acid-functionalized graphitic carbon nitride quantum dots for the selective glucose sensor. <i>Sensors and Actuators B: Chemical</i> , 2019, 282, 36-44.	7.8	65
23	Developments and Perspectives on Robust Nano- and Microstructured Binder-Free Electrodes for Bifunctional Water Electrolysis and Beyond. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	63
24	High performance bifunctional electrocatalytic activity of a reduced graphene oxide-molybdenum oxide hybrid catalyst. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13271-13279.	10.3	62
25	Effect of GO Additive in ZnO/rGO Nanocomposites with Enhanced Photosensitivity and Photocatalytic Activity. <i>Nanomaterials</i> , 2019, 9, 1441.	4.1	62
26	Fabrication of 3D structured ZnO nanorod/reduced graphene oxide hydrogels and their use for photo-enhanced organic dye removal. <i>Journal of Colloid and Interface Science</i> , 2015, 437, 181-186.	9.4	61
27	The effect of solvent polarity on emission properties of carbon dots and their uses in colorimetric sensors for water and humidity. <i>Materials Research Bulletin</i> , 2019, 119, 110564.	5.2	60
28	Ordered mesoporous carbon-carbon nanotube nanocomposites as highly conductive and durable cathode catalyst supports for polymer electrolyte fuel cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1270-1283.	10.3	58
29	Surfactant-treated graphene covered polyaniline nanowires for supercapacitor electrode. <i>Nanoscale Research Letters</i> , 2015, 10, 183.	5.7	57
30	Dispersibility of reduced alkylamine-functionalized graphene oxides in organic solvents. <i>Journal of Colloid and Interface Science</i> , 2014, 424, 62-66.	9.4	55
31	NiMn ₂ O ₄ spinel binary nanostructure decorated on three-dimensional reduced graphene oxide hydrogel for bifunctional materials in non-enzymatic glucose sensor. <i>Nanoscale</i> , 2017, 9, 19318-19327.	5.6	48
32	A catalytic and efficient route for reduction of graphene oxide by hydrogen spillover. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1070-1077.	10.3	44
33	Fast and effective electron transport in a Au-graphene-ZnO hybrid for enhanced photocurrent and photocatalysis. <i>RSC Advances</i> , 2015, 5, 63964-63969.	3.6	44
34	Temperature-dependent photoluminescence from chemically and thermally reduced graphene oxide. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	43
35	Simple paper-based colorimetric and fluorescent glucose sensor using N-doped carbon dots and metal oxide hybrid structures. <i>Analytica Chimica Acta</i> , 2021, 1147, 187-198.	5.4	43
36	Cerium-Oxide-Nanoparticle-Decorated Zinc Oxide with Enhanced Photocatalytic Degradation of Methyl Orange. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1697.	2.5	42

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37	Glutathione modified N-doped carbon dots for sensitive and selective dopamine detection. <i>Dyes and Pigments</i> , 2021, 186, 109028.	3.7	40
38	Highly enhanced visible light water splitting of CdS by green to blue upconversion. <i>Dalton Transactions</i> , 2017, 46, 13912-13919.	3.3	36
39	Chemically controlled in-situ growth of cobalt oxide microspheres on N,S-co-doped reduced graphene oxide as an efficient electrocatalyst for oxygen reduction reaction. <i>Journal of Power Sources</i> , 2018, 407, 70-83.	7.8	36
40	ZnO-Associated Carbon Dot-Based Fluorescent Assay for Sensitive and Selective Dopamine Detection. <i>ACS Omega</i> , 2019, 4, 17031-17038.	3.5	35
41	Engineered "coffee-rings" of reduced graphene oxide as ultrathin contact guidance to enable patterning of living cells. <i>Materials Horizons</i> , 2019, 6, 1066-1079.	12.2	35
42	Structurally tuned lead magnesium titanate perovskite as a photoelectrode material for enhanced photoelectrochemical water splitting. <i>Chemical Engineering Journal</i> , 2017, 309, 682-690.	12.7	33
43	Aminoboronic acid-functionalized graphitic carbon nitride quantum dots for the photoluminescence multi-chemical sensing probe. <i>Dyes and Pigments</i> , 2019, 168, 180-188.	3.7	33
44	Green synthesis of silver nanoparticle-decorated porous reduced graphene oxide for antibacterial non-enzymatic glucose sensors. <i>Ionics</i> , 2017, 23, 1525-1532.	2.4	31
45	Heterophase polymer dispersion: A green approach to the synthesis of functional hollow polymer microparticles. <i>Chemical Engineering Journal</i> , 2018, 348, 46-56.	12.7	31
46	Synthesis of highly concentrated suspension of chemically converted graphene in organic solvents: Effect of temperature on the extent of reduction and dispersibility. <i>Korean Journal of Chemical Engineering</i> , 2012, 29, 680-685.	2.7	30
47	Tailoring the structural properties of simultaneously reduced and functionalized graphene oxide via alkanolamine(s)/alkyl alkanolamine for energy storage applications. <i>Chemical Engineering Journal</i> , 2019, 363, 120-132.	12.7	30
48	Effects of the alkylamine functionalization of graphene oxide on the properties of polystyrene nanocomposites. <i>Nanoscale Research Letters</i> , 2014, 9, 265.	5.7	29
49	Single precursor mediated one-step synthesis of ternary-doped and functionalized reduced graphene oxide by pH tuning for energy storage applications. <i>Chemical Engineering Journal</i> , 2017, 330, 965-978.	12.7	28
50	Graphene Composites for Lead Ions Removal from Aqueous Solutions. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2925.	2.5	28
51	One-step synthesis of a highly conductive graphene-polypyrrole nanofiber composite using a redox reaction and its use in gas sensors. <i>Physica Status Solidi - Rapid Research Letters</i> , 2012, 6, 379-381.	2.4	27
52	Metal nanocrystal-based sensing platform for the quantification of water in water-ethanol mixtures. <i>Sensors and Actuators B: Chemical</i> , 2018, 263, 59-68.	7.8	27
53	Low-voltage solution-processed graphene transistors based on chemically and solvothermally reduced graphene oxide. <i>Journal of Materials Chemistry</i> , 2011, 21, 13068.	6.7	25
54	Nitrogen and boron-incorporated carbon dots for the sequential sensing of ferric ions and ascorbic acid sensitively and selectively. <i>Dyes and Pigments</i> , 2019, 171, 107752.	3.7	23

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55	Reshaping of triangular silver nanoplates by a non-halide etchant and its application in melamine sensing. <i>Journal of Colloid and Interface Science</i> , 2019, 552, 485-493.	9.4	23
56	Influence of heat treatment on thermally-reduced graphene oxide/TiO ₂ composites for photocatalytic applications. <i>Korean Journal of Chemical Engineering</i> , 2011, 28, 2236-2241.	2.7	22
57	Solution-processed semitransparent p-n graphene oxide:CNT/ZnO heterojunction diodes for visible-blind UV sensors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011, 208, 943-946.	1.8	21
58	Mechanical properties of graphite/aluminum metal matrix composite joints by friction stir spot welding. <i>Journal of Mechanical Science and Technology</i> , 2014, 28, 499-504.	1.5	21
59	Three-Dimensional Porous Nitrogen-Doped NiO Nanostructures as Highly Sensitive NO ₂ Sensors. <i>Nanomaterials</i> , 2017, 7, 313.	4.1	20
60	Highly sensitive NO ₂ sensors based on local p-n heterojunctions composed of O ₂ Cu ₂ O nanoparticles and 1D ZnO nanorods. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 1213-1216.	1.8	19
61	Mesoporous ruthenium metal organic framework core shell templated CdS/rGO nanosheets catalyst for efficient bifunctional electro-catalytic oxygen reactions. <i>Materials Research Bulletin</i> , 2019, 112, 95-103.	5.2	19
62	Highly sensitive smartphone-integrated colorimetric glucose sensor based on MnFe ₂ O ₄ @ graphitic carbon nitride hybrid nanostructure. <i>Materials Research Bulletin</i> , 2020, 129, 110910.	5.2	18
63	A one pot solution blending method for highly conductive poly (methyl methacrylate)-highly reduced graphene nanocomposites. <i>Electronic Materials Letters</i> , 2013, 9, 837-839.	2.2	17
64	Controlled atom transfer radical polymerization of MMA onto the surface of high-density functionalized graphene oxide. <i>Nanoscale Research Letters</i> , 2014, 9, 345.	5.7	17
65	Pt Nanoparticle-Decorated Reduced Graphene Oxide Hydrogel for High-Performance Strain Sensor: Tailoring Piezoresistive Property by Controlled Microstructure of Hydrogel. <i>ACS Applied Nano Materials</i> , 2018, 1, 2836-2843.	5.0	17
66	Advanced Nano-Structured Materials for Photocatalytic Water Splitting. <i>Journal of Electrochemical Science and Technology</i> , 2016, 7, 1-12.	2.2	17
67	Multi-functional NiO/g-C ₃ N ₄ hybrid nanostructures for energy storage and sensor applications. <i>Korean Journal of Chemical Engineering</i> , 2020, 37, 1589-1598.	2.7	15
68	Fabrication of g-C ₃ N ₄ Quantum Dots/MnCO ₃ Nanocomposite on Carbon Cloth for Flexible Supercapacitor Electrode. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7927.	2.5	15
69	Multicolor Emitting N-Doped Carbon Dots Derived from Ascorbic Acid and Phenylenediamine Precursors. <i>Nanoscale Research Letters</i> , 2020, 15, 222.	5.7	15
70	Preparation of a reduced graphene oxide hydrogel by Ni ions and its use in a supercapacitor electrode. <i>RSC Advances</i> , 2015, 5, 22753-22758.	3.6	14
71	Gold artichokes for enhanced photocatalysis. <i>Materials Letters</i> , 2015, 160, 92-95.	2.6	14
72	Surface modification of co-doped reduced graphene oxide through alkanolamine functionalization for enhanced electrochemical performance. <i>New Journal of Chemistry</i> , 2018, 42, 1105-1114.	2.8	14

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73	Uncovering the actual inner-filter effect between highly efficient carbon dots and nitroaromatics. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 236, 118342.	3.9	14
74	High quantum yield aminophenylboronic acid-functionalized N-doped carbon dots for highly selective hypochlorite ion detection. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 260, 119895.	3.9	14
75	Synthesis of highly durable sulfur doped graphite nanoplatelet electrocatalyst by a fast and simple wet ball milling process. <i>Materials Letters</i> , 2015, 161, 399-403.	2.6	13
76	Multi-dimensional carbon nanofibers for supercapacitor electrodes. <i>Journal of Electroceramics</i> , 2017, 38, 43-50.	2.0	13
77	Anion-controlled sulfidation for decoration of graphene oxide with iron cobalt sulfide for rapid sonochemical dyes removal in the absence of light. <i>Applied Catalysis A: General</i> , 2018, 561, 49-58.	4.3	12
78	Carbide-directed enhancement of electrochemical hydrogen evolution reaction on tungsten carbide-oxide heterostructure. <i>Chemical Engineering Journal</i> , 2022, 450, 137915.	12.7	12
79	Fabrication of Novel 2D NiO Nanosheet Branched on 1D-ZnO Nanorod Arrays for Gas Sensor Application. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-6.	2.7	11
80	Highly CO selective Ca and Zn hybrid metal-organic framework electrocatalyst for the electrochemical reduction of CO ₂ . <i>Current Applied Physics</i> , 2021, 27, 31-37.	2.4	11
81	Photo-Enhanced Selective Reduction of Nitroarenes Over Pt/ZnO Catalyst. <i>Catalysis Letters</i> , 2017, 147, 2440-2447.	2.6	10
82	Fabrication of dual emission carbon dots and its use in highly sensitive thioamide detection. <i>Dyes and Pigments</i> , 2020, 175, 108126.	3.7	10
83	Designing an intriguingly fluorescent N, B-doped carbon dots based fluorescent probe for selective detection of NO ₂ ⁻ ions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 268, 120657.	3.9	10
84	Facile synthesis and structural analysis of graphene oxide decorated with iron-cerium carbonate for visible-light driven rapid degradation of organic dyes. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 2616-2626.	6.7	9
85	Concentration-dependent emission of nitrogen-doped carbon dots and its use in hazardous metal-ion detection. <i>Carbon Letters</i> , 2021, 31, 523-536.	5.9	9
86	Polyol-mediated synthesis of ZnO nanoparticle-assembled hollow spheres/nanorods and their photoanode performances. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 495-499.	2.7	8
87	Highly CO Selective Trimetallic Metal-Organic Framework Electrocatalyst for the Electrochemical Reduction of CO ₂ . <i>Catalysts</i> , 2021, 11, 537.	3.5	8
88	Tunable visible emission and warm white photoluminescence of lithium-doped zinc oxide thin films. <i>Journal of Materials Science</i> , 2010, 45, 4111-4114.	3.7	7
89	Effect of reduced graphene oxide functionalization by sulfanilic acid on the mechanical properties of poly(styrene- <i>co</i> -acrylonitrile)/reduced graphene oxide composites. <i>Polymer Composites</i> , 2016, 37, 44-50.	4.6	6
90	Enhanced Electromagnetic Interference Shielding Properties of Immiscible Polyblends with Selective Localization of Reduced Graphene Oxide Networks. <i>Polymers</i> , 2022, 14, 967.	4.5	6

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91	Construction and Mechanism Analysis of a Self-Assembled Conductive Network in DGEBA/PEI/HRGO Nanocomposites by Controlling Filler Selective Localization. <i>Nanomaterials</i> , 2021, 11, 228.	4.1	5
92	Enhanced Capacitance of Three Dimensional Graphene Oxide Hydrogel by the Hybridization with Silver Nanowire. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 7711-7713.	0.9	3
93	Improved kinetics of reduction of alkaline water on the Ni^{II} supported transition metal oxide/boride hetero-interface: A case study. <i>International Journal of Energy Research</i> , 2022, 46, 14979-14993.	4.5	3
94	Optimization of single-walled carbon nanotube growth and study of the hysteresis of random network carbon nanotube thin film transistors. <i>Korean Journal of Chemical Engineering</i> , 2010, 27, 1892-1896.	2.7	2
95	TiCl_4 hybridization with modified Ni(II) β -diimine catalyst complex for ethylene polymerization. <i>Korean Journal of Chemical Engineering</i> , 2012, 29, 1119-1122.	2.7	1
96	Polyol-Free Synthesis of Uniformly Dispersed Pt/Graphene Oxide Electrocatalyst by Sulfuric Acid Treatment. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-6.	2.7	0