

Seung Hyun Hur

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10794300/publications.pdf>

Version: 2024-02-01

49
papers

4,796
citations

147801

31
h-index

197818

49
g-index

49
all docs

49
docs citations

49
times ranked

7868
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanostructured graphene/Fe ₃ O ₄ incorporated polyaniline as a high performance shield against electromagnetic pollution. <i>Nanoscale</i> , 2013, 5, 2411.	5.6	502
2	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
3	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
4	Fast and simple fabrication of a large transparent chemically-converted graphene film by spray-coating. <i>Carbon</i> , 2010, 48, 1945-1951.	10.3	302
5	Highly Conductive Poly(methyl methacrylate) (PMMA)-Reduced Graphene Oxide Composite Prepared by Self-Assembly of PMMA Latex and Graphene Oxide through Electrostatic Interaction. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 2630-2636.	8.0	244
6	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
7	Chemical reduction of an aqueous suspension of graphene oxide by nascent hydrogen. <i>Journal of Materials Chemistry</i> , 2012, 22, 10530.	6.7	211
8	Selective adsorption of organic dyes on graphene oxide: Theoretical and experimental analysis. <i>Applied Surface Science</i> , 2019, 464, 170-177.	6.1	189
9	One-step synthesis of superior dispersion of chemically converted graphene in organic solvents. <i>Chemical Communications</i> , 2010, 46, 4375.	4.1	162
10	Three-dimensional hollow balls of graphene-polyaniline hybrids for supercapacitor applications. <i>Chemical Engineering Journal</i> , 2014, 255, 89-96.	12.7	159
11	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
12	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
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	Solution-processed ZnO-chemically converted graphene gas sensor. <i>Materials Letters</i> , 2010, 64, 2479-2482.	2.6	129
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	Photocatalytic Performance of a Ag/ZnO/CCG Multidimensional Heterostructure Prepared by a Solution-Based Method. <i>Journal of Physical Chemistry C</i> , 2012, 116, 7180-7184.	3.1	92
17	Synthesis and characterization of covalently-grafted graphene-polyaniline nanocomposites and its use in a supercapacitor. <i>Chemical Engineering Journal</i> , 2013, 231, 397-405.	12.7	91
18	Reduced graphene oxide as an over-coating layer on silver nanostructures for detecting NH ₃ gas at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2014, 194, 45-50.	7.8	90

#	ARTICLE	IF	CITATIONS
19	Highly efficient reduction of graphene oxide using ammonia borane. <i>Chemical Communications</i> , 2013, 49, 6665.	4.1	88
20	Superior conductive polystyrene “chemically converted graphene nanocomposite. <i>Journal of Materials Chemistry</i> , 2011, 21, 11312.	6.7	87
21	Superior dispersion of highly reduced graphene oxide in N,N-dimethylformamide. <i>Journal of Colloid and Interface Science</i> , 2012, 376, 91-96.	9.4	76
22	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
23	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
24	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
25	Surfactant-treated graphene covered polyaniline nanowires for supercapacitor electrode. <i>Nanoscale Research Letters</i> , 2015, 10, 183.	5.7	57
26	Reduced graphene oxide“titanate hybrids: Morphologic evolution by alkali-solvothermal treatment and applications in water purification. <i>Applied Surface Science</i> , 2012, 258, 4551-4557.	6.1	56
27	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
28	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
29	The molecular level control of three-dimensional graphene oxide hydrogel structure by using various diamines. <i>Chemical Engineering Journal</i> , 2014, 246, 64-70.	12.7	47
30	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
31	Enhanced solvothermal reduction of graphene oxide in a mixed solution of sulfuric acid and organic solvent. <i>Chemical Engineering Journal</i> , 2012, 211-212, 97-103.	12.7	39
32	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
33	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
34	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
35	Ultraviolet light sensor based on graphene quantum dots/reduced graphene oxide hybrid film. <i>Sensors and Actuators A: Physical</i> , 2015, 233, 368-373.	4.1	29
36	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

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	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
40	Black Carbon-Mediated Reduction of 2,4-Dinitrotoluene by Dithiothreitol. <i>Journal of Environmental Quality</i> , 2013, 42, 815-821.	2.0	20
41	Clean and effective catalytic reduction of graphene oxide using atomic hydrogen spillover on Pt/γ-Al ₂ O ₃ catalyst. <i>Materials Letters</i> , 2012, 86, 161-164.	2.6	17
42	Polymorphic transformations and optical properties of graphene-based Ag-doped titania nanostructures. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 23874-23883.	2.8	16
43	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
44	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
45	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
46	Redox synthesis of poly (p-phenylenediamine)-reduced graphene oxide for the improvement of electrochemical performance of lithium titanate in lithium-ion battery anode. <i>Journal of Alloys and Compounds</i> , 2017, 709, 248-259.	5.5	11
47	Alternative binder-free electrode based on facile deposition of carbon/graphene-TiO ₂ on the coin cell anode for a lithium-ion battery. <i>Surface and Coatings Technology</i> , 2017, 315, 359-367.	4.8	7
48	Effect of reduced graphene oxide functionalization by sulfanilic acid on the mechanical properties of poly(styrene-co-acrylonitrile)/reduced graphene oxide composites. <i>Polymer Composites</i> , 2016, 37, 44-50.	4.6	6
49	Highly Durable Pt catalyst Supported on the Hybrid Carbon Materials for Polymer Electrolyte Membrane Fuel Cell. <i>Journal of the Korean Electrochemical Society</i> , 2014, 17, 201-208.	0.1	2