

Jingyun Huang

List of Publications by Year in descending order

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62
papers

2,229
citations

304743

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214800

47
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62
all docs

62
docs citations

62
times ranked

3785
citing authors

#	ARTICLE	IF	CITATIONS
1	Controlled Replication of Butterfly Wings for Achieving Tunable Photonic Properties. Nano Letters, 2006, 6, 2325-2331.	9.1	475
2	3D graphene foams decorated by CuO nanoflowers for ultrasensitive ascorbic acid detection. Biosensors and Bioelectronics, 2014, 59, 384-388.	10.1	162
3	Electrostatic Self-Assembly of BiVO ₄ –Reduced Graphene Oxide Nanocomposites for Highly Efficient Visible Light Photocatalytic Activities. ACS Applied Materials & Interfaces, 2014, 6, 12698-12706.	8.0	146
4	Bio-inspired fabrication of antireflection nanostructures by replicating fly eyes. Nanotechnology, 2008, 19, 025602.	2.6	105
5	A label-free electrochemical platform for the highly sensitive detection of hepatitis B virus DNA using graphene quantum dots. RSC Advances, 2018, 8, 1820-1825.	3.6	94
6	3D graphene network@WO ₃ nanowire composites: a multifunctional colorimetric and electrochemical biosensing platform. Chemical Communications, 2014, 50, 11135-11138.	4.1	85
7	Highly sensitive electrochemical detection of circulating tumor DNA based on thin-layer MoS ₂ /graphene composites. RSC Advances, 2016, 6, 22673-22678.	3.6	76
8	Controlled synthesis of spinel ZnFe ₂ O ₄ decorated ZnO heterostructures as peroxidase mimetics for enhanced colorimetric biosensing. Chemical Communications, 2013, 49, 7656.	4.1	70
9	Bioinspired Formation of 3D Hierarchical CoFe ₂ O ₄ Porous Microspheres for Magnetic-Controlled Drug Release. ACS Applied Materials & Interfaces, 2015, 7, 1327-1333.	8.0	66
10	Three-Dimensional Porous Nickel Frameworks Anchored with Cross-Linked Ni(OH) ₂ Nanosheets as a Highly Sensitive Nonenzymatic Glucose Sensor. ACS Applied Materials & Interfaces, 2018, 10, 15088-15095.	8.0	60
11	Synthesis of mesoporous multiwall ZnO nanotubes by replicating silk and application for enzymatic biosensor. Biosensors and Bioelectronics, 2013, 49, 318-322.	10.1	58
12	Enhanced photocatalytic properties of ZnO nanorods by electrostatic self-assembly with reduced graphene oxide. Physical Chemistry Chemical Physics, 2018, 20, 6959-6969.	2.8	53
13	Optical properties of p-type CuAlO ₂ thin film grown by rf magnetron sputtering. Applied Surface Science, 2011, 257, 8330-8333.	6.1	50
14	Powder metallurgy template growth of 3D N-doped graphene foam as binder-free cathode for high-performance lithium/sulfur battery. Carbon, 2018, 137, 368-378.	10.3	50
15	Enhanced near band edge emission of ZnO via surface plasmon resonance of aluminum nanoparticles. Journal of Applied Physics, 2011, 110, 023510.	2.5	45
16	Piezoelectric properties of rhombic LiNbO ₃ nanowires. RSC Advances, 2012, 2, 7380.	3.6	45
17	A single mesoporous ZnO/Chitosan hybrid nanostructure for a novel free nanoprobe type biosensor. Biosensors and Bioelectronics, 2013, 43, 226-230.	10.1	45
18	Highly Stable Lithium–Sulfur Batteries Promised by Siloxene: An Effective Cathode Material to Regulate the Adsorption and Conversion of Polysulfides. Advanced Functional Materials, 2020, 30, 1910331.	14.9	41

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19	Synthesis of ZnO@CuO porous core-shell spheres and their application for non-enzymatic glucose sensor. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 118, 989-996.	2.3	37
20	Growth and properties of ZnO nanorod and nanonails by thermal evaporation. <i>Applied Surface Science</i> , 2009, 255, 3972-3976.	6.1	36
21	The influence of morphologies and doping of nanostructured ZnO on the field emission behaviors. <i>Solid-State Electronics</i> , 2009, 53, 578-583.	1.4	31
22	A perovskite-type KNbO ₃ nanoneedles based biosensor for direct electrochemistry of hydrogen peroxide. <i>Ceramics International</i> , 2014, 40, 8111-8116.	4.8	26
23	Three-dimensional graphene foam integrated with Ni(OH) ₂ nanosheets as a hierarchical structure for non-enzymatic glucose sensing. <i>Journal of Electroanalytical Chemistry</i> , 2019, 832, 275-283.	3.8	23
24	Triggering interface potential barrier: A controllable tuning mechanism for electrochemical detection. <i>Biosensors and Bioelectronics</i> , 2016, 85, 869-875.	10.1	22
25	A nanostructured p-NiO/n-Bi ₄ Ti ₃ O ₁₂ heterojunction for direct GOx electrochemistry and high-sensitivity glucose sensing. <i>Sensors and Actuators B: Chemical</i> , 2018, 261, 385-391.	7.8	22
26	Synthesis and waveguiding of single-crystalline LiNbO ₃ nanorods. <i>Applied Physics Letters</i> , 2011, 98, 093102.	3.3	20
27	Mango core inner shell membrane template-directed synthesis of porous ZnO films and their application for enzymatic glucose biosensor. <i>Applied Surface Science</i> , 2013, 285, 344-349.	6.1	18
28	Self-assemble ZnMn ₂ O ₄ hierarchical hollow microspheres into self-supporting architecture for enhanced biosensing performance. <i>Biosensors and Bioelectronics</i> , 2014, 61, 443-447.	10.1	18
29	Synthesis of ZnO micro-pompons by soft template-directed wet chemical method and their application in electrochemical biosensors. <i>Electrochimica Acta</i> , 2014, 115, 277-282.	5.2	17
30	Fabrication of ZnO/Al ₂ O ₃ core-shell nanostructures and crystalline Al ₂ O ₃ nanotube. <i>Applied Surface Science</i> , 2008, 254, 5917-5920.	6.1	16
31	Silicene Quantum Dots Confined in Few-Layer Siloxene Nanosheets for Blue-Light-Emitting Diodes. <i>ACS Applied Nano Materials</i> , 2020, 3, 538-546.	5.0	16
32	The application of porous ZnO 3D framework to assemble enzyme for rapid and ultrahigh sensitive biosensors. <i>Ceramics International</i> , 2013, 39, 9319-9323.	4.8	13
33	Use of tunable second-harmonic signal from KNbO ₃ nanoneedles to find optimal wavelength for deep-tissue imaging. <i>Laser and Photonics Reviews</i> , 2014, 8, 865-874.	8.7	13
34	A nanostructured ferroelectric lithium tantalate as polysulfide immobilizer and promoter for improved lithium-sulfur batteries. <i>Journal of Alloys and Compounds</i> , 2019, 807, 151672.	5.5	13
35	High internal quantum efficiency ZnO/ZnMgO multiple quantum wells prepared on GaN/sapphire templates for ultraviolet light emitting diodes. <i>Journal of Materials Chemistry C</i> , 2019, 7, 6534-6538.	5.5	13
36	Optical properties and structural characteristics of ZnO thin films grown on a-plane sapphire substrates by plasma-assisted molecular beam epitaxy. <i>Optics Communications</i> , 2012, 285, 4431-4434.	2.1	11

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37	Facile fabrication of all-solid-state SnO ₂ /NiCo ₂ O ₄ biosensor for self-powered glucose detection. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	11
38	Realization of p-type Se ²⁺ /N co-doped ZnO films by radio-frequency magnetron sputtering. Materials Letters, 2013, 108, 183-185.	2.6	10
39	Enhanced internal quantum efficiency in non-polar ZnO/Zn _{0.81} Mg _{0.19} O multiple quantum wells by Pt surface plasmons coupling. Optics Letters, 2015, 40, 3639.	3.3	10
40	P-type single-crystalline ZnO films obtained by (Na,N) dual implantation through dynamic annealing process. Journal of Crystal Growth, 2018, 483, 236-240.	1.5	10
41	Growth of high-quality ZnO thin films on (111) a-plane sapphire substrates by plasma-assisted molecular beam epitaxy. Applied Physics A: Materials Science and Processing, 2013, 112, 1051-1055.	2.3	9
42	Preparation and optical properties of ZnO/Zn _{0.9} Mg _{0.1} O multiple quantum well structures with various well widths grown on c-plane sapphire. Optics Communications, 2013, 301-302, 96-99.	2.1	9
43	One-step controllable synthesis of amino-modification siloxene for enhanced solar water-splitting. Journal of Colloid and Interface Science, 2020, 579, 205-211.	9.4	7
44	Tailoring the lateral size of two-dimensional silicon nanomaterials to produce highly stable and efficient deep-blue emissive silicene-like quantum dots. Journal of Materials Chemistry C, 2021, 9, 10065-10072.	5.5	7
45	UV electroluminescence emissions from high-quality ZnO/ZnMgO multiple quantum well active layer light-emitting diodes. RSC Advances, 2021, 11, 38949-38955.	3.6	7
46	Effects of diffusion temperature and diffusion time on fabrication of Na-diffused p-type ZnO thin films. Materials Letters, 2012, 80, 175-177.	2.6	6
47	Bio-inspired Formation of Mesoporous LiNbO ₃ Nanotubes and Application for Glucose Biosensor. Electrochimica Acta, 2014, 147, 176-182.	5.2	6
48	Determination of Na acceptor level in Na ⁺ ion-implanted ZnO single crystal. Applied Physics A: Materials Science and Processing, 2015, 118, 1229-1232.	2.3	6
49	Fabricating ultrathin ZrB ₂ /Graphene oxide/carboxymethocel layer onto cathode as effective polysulfide shuttling barrier for Li-S battery. Electrochimica Acta, 2019, 321, 134694.	5.2	6
50	Multifunctional ZnO interfaces with hierarchical micro- and nanostructures: bio-inspiration from the compound eyes of butterflies. Applied Physics A: Materials Science and Processing, 2010, 100, 57-61.	2.3	4
51	Self-fluorinated Bi ₃ Ti ₂ O ₈ F formed by cross-linked nanosheets as a superior dye-sensitized photocatalyst. RSC Advances, 2015, 5, 81087-81092.	3.6	4
52	P-type single-crystalline ZnO films obtained by (N,O) dual implantation through dynamic annealing process. Superlattices and Microstructures, 2016, 100, 468-473.	3.1	4
53	P-type single-crystalline ZnO films obtained by (Li, N) dual implantation through dynamic annealing process. Journal of Materials Science: Materials in Electronics, 2017, 28, 16215-16219.	2.2	4
54	Self-assembly vertically cross-linked 3D Bi ₃ Ti ₂ O ₈ F nanosheets for colorimetric and electrochemical mimic peroxidase sensor. Journal of Electroanalytical Chemistry, 2017, 807, 76-81.	3.8	4

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55	Fabricating efficient polysulfide barrier via ultrathin tantalum pentoxide grown on separator for lithium-sulfur batteries. <i>Journal of Electroanalytical Chemistry</i> , 2019, 854, 113539.	3.8	3
56	Hierarchical High-Porosity Graphene Oxide-Porous Carbon/Sulfur Composite with Sodium Chloride as Temporary Space Holders for High-Performance Lithium-Sulfur Batteries. <i>ChemElectroChem</i> , 2019, 6, 2667-2674.	3.4	3
57	A Method of Combining the Increased Density of Acceptors with Restrained Density of Oxygen Vacancies to Fabricate p-Type Single-Crystalline ZnO Films. <i>Journal of Electronic Materials</i> , 2019, 48, 780-786.	2.2	3
58	Electrically pumped ultraviolet lasing from ZnO in metal-insulator-semi devices. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 111, 689-694.	2.3	2
59	Bio-inspired three-dimensional micro-nanoporous graphene for constructing Schottky junction and remarkably enhanced electrochemical detection. <i>Sensors and Actuators B: Chemical</i> , 2019, 281, 245-252.	7.8	2
60	Growth of potassium niobate micro-hexagonal tablets with monoclinic phase and its excellent piezoelectric property. <i>Journal of Crystal Growth</i> , 2012, 354, 9-12.	1.5	1
61	Impact of exciton dissociation on the metal-enhanced photoluminescence in ZnO/ZnMgO multiple quantum wells. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 121, 1039-1044.	2.3	0
62	Supercontinuum pulse measurement by KNbO_3 nanoneedle based cross-correlation frequency-resolved optical gating (XFROG). <i>Optical and Quantum Electronics</i> , 2015, 47, 1083-1089.	3.3	0