

Yoon-Bong Hahn

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

183
papers

7,752
citations

50
h-index

79
g-index

192
ext. papers

8,687
ext. citations

5.8
avg, IF

6.52
L-index

#	Paper	IF	Citations
183	Predominantly enhanced catalytic activities of surface protected ZnO nanorods integrated stainless-steel mesh structures: A synergistic impact on oxygen evolution reaction process. <i>Chemical Engineering Journal</i> , 2022 , 429, 132360	14.7	2
182	Fabrication and enhanced carbon monoxide gas sensing performance of p-CuO/n-TiO ₂ heterojunction device. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 612, 125962	5.1	20
181	Ultrathin ternary metal oxide Bi ₂ MoO ₆ nanosheets for high performance asymmetric supercapacitor and gas sensor applications. <i>Applied Surface Science</i> , 2021 , 551, 149422	6.7	21
180	Highly stable perovskite solar cells based on perovskite/NiO-graphene composites and NiO interface with 25.9 mA/cm ² photocurrent density and 20.8% efficiency. <i>Nano Energy</i> , 2021 , 79, 105452	17.1	20
179	High performance chemical sensor with field-effect transistors array for selective detection of multiple ions. <i>Chemical Engineering Journal</i> , 2021 , 417, 128064	14.7	7
178	A critical review of materials innovation and interface stabilization for efficient and stable perovskite photovoltaics. <i>Nano Energy</i> , 2021 , 87, 106141	17.1	12
177	Cation-size mismatch and interface stabilization for efficient NiO _x -based inverted perovskite solar cells with 21.9% efficiency. <i>Nano Energy</i> , 2021 , 88, 106285	17.1	20
176	Suppression of Sn ²⁺ /Sn ⁴⁺ oxidation in tin-based perovskite solar cells with graphene-tin quantum dots composites in active layer. <i>Nano Energy</i> , 2021 , 90, 106495	17.1	14
175	Highly stable and Efficient Perovskite Solar Cells Based on FAMA-Perovskite-Cu:NiO Composites with 20.7% Efficiency and 80.5% Fill Factor. <i>Advanced Energy Materials</i> , 2020 , 10, 2000967	21.8	23
174	Hybrid interfacial ETL engineering using PCBM-SnS ₂ for High-Performance p-i-n structured planar perovskite solar cells. <i>Chemical Engineering Journal</i> , 2020 , 397, 125504	14.7	17
173	Review Recent Advances in Nanostructured Graphitic Carbon Nitride as a Sensing Material for Heavy Metal Ions. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 037519	3.9	38
172	Ultra thin NiO nanosheets for high performance hydrogen gas sensor device. <i>Applied Surface Science</i> , 2020 , 506, 144971	6.7	70
171	SrTiO ₃ /Al ₂ O ₃ -Graphene Electron Transport Layer for Highly Stable and Efficient Composites-Based Perovskite Solar Cells with 20.6% Efficiency. <i>Advanced Energy Materials</i> , 2020 , 10, 1903369	21.8	35
170	Recent advances in graphene monolayers growth and their biological applications: A review. <i>Advances in Colloid and Interface Science</i> , 2020 , 283, 102225	14.3	11
169	Nozzle-Jet-Printed Silver/Graphene Composite-Based Field-Effect Transistor Sensor for Phosphate Ion Detection. <i>ACS Omega</i> , 2019 , 4, 8373-8380	3.9	16
168	Improved selectivity and low concentration hydrogen gas sensor application of Pd sensitized heterojunction n-ZnO/p-NiO nanostructures. <i>Journal of Alloys and Compounds</i> , 2019 , 797, 456-464	5.7	78
167	Cost-effective silver ink for printable and flexible electronics with robust mechanical performance. <i>Chemical Engineering Journal</i> , 2019 , 373, 355-364	14.7	15

166	High response and low concentration hydrogen gas sensing properties using hollow ZnO particles transformed from polystyrene@ZnO core-shell structures. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 15677-15688	6.7	31
165	TiO ₂ Nanoparticles/Nanotubes for Efficient Light Harvesting in Perovskite Solar Cells. <i>Nanomaterials</i> , 2019 , 9,	5.4	22
164	Fully-ambient-air and antisolvent-free-processed stable perovskite solar cells with perovskite-based composites and interface engineering. <i>Nano Energy</i> , 2019 , 64, 103964	17.1	26
163	Stability Enhancement in Perovskite Solar Cells with Perovskite/Silver/Graphene Composites in the Active Layer. <i>ACS Energy Letters</i> , 2019 , 4, 235-241	20.1	41
162	Fabrication of a solution-gated transistor based on valinomycin modified iron oxide nanoparticles decorated zinc oxide nanorods for potassium detection. <i>Journal of Colloid and Interface Science</i> , 2018 , 518, 277-283	9.3	25
161	Graphene and its derivatives for solar cells application. <i>Nano Energy</i> , 2018 , 47, 51-65	17.1	189
160	Fully-ambient-processed mesoscopic semitransparent perovskite solar cells by islands-structure-MAPbI ₃ -xCl _x -NiO composite and Al ₂ O ₃ /NiO interface engineering. <i>Nano Energy</i> , 2018 , 49, 59-66	17.1	45
159	Synthesis of manganese oxide nanorods and its application for potassium ion sensing in water. <i>Journal of Colloid and Interface Science</i> , 2018 , 516, 364-370	9.3	20
158	Fabrication of sensitive non-enzymatic nitrite sensor using silver-reduced graphene oxide nanocomposite. <i>Journal of Colloid and Interface Science</i> , 2018 , 516, 67-75	9.3	42
157	Preparation of a Highly Conductive Seed Layer for Calcium Sensor Fabrication with Enhanced Sensing Performance. <i>ACS Sensors</i> , 2018 , 3, 772-778	9.2	28
156	Enhancement of power conversion efficiency with TiO ₂ nanoparticles/nanotubes-silver nanoparticles composites in dye-sensitized solar cells. <i>Applied Surface Science</i> , 2018 , 429, 23-28	6.7	30
155	Fully nozzle-jet printed non-enzymatic electrode for biosensing application. <i>Journal of Colloid and Interface Science</i> , 2018 , 512, 480-488	9.3	29
154	Nonenzymatic flexible field-effect transistor based glucose sensor fabricated using NiO quantum dots modified ZnO nanorods. <i>Journal of Colloid and Interface Science</i> , 2018 , 512, 21-28	9.3	66
153	Recent advances in nanowires-based field-effect transistors for biological sensor applications. <i>Biosensors and Bioelectronics</i> , 2018 , 100, 312-325	11.8	78
152	Deposition of nanomaterials: A crucial step in biosensor fabrication. <i>Materials Today Communications</i> , 2018 , 17, 289-321	2.5	92
151	Nano-bitter gourd like structured CuO for enhanced hydrogen gas sensor application. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 22705-22714	6.7	51
150	Highly stable hydrazine chemical sensor based on vertically-aligned ZnO nanorods grown on electrode. <i>Journal of Colloid and Interface Science</i> , 2017 , 494, 153-158	9.3	43
149	Fabrication of a non-enzymatic glucose sensor field-effect transistor based on vertically-oriented ZnO nanorods modified with Fe ₂ O ₃ . <i>Electrochemistry Communications</i> , 2017 , 77, 107-111	5.1	76

148	Development of highly-stable binder-free chemical sensor electrodes for p-nitroaniline detection. <i>Journal of Colloid and Interface Science</i> , 2017 , 494, 300-306	9.3	21
147	Solution Process Synthesis of High Aspect Ratio ZnO Nanorods on Electrode Surface for Sensitive Electrochemical Detection of Uric Acid. <i>Scientific Reports</i> , 2017 , 7, 46475	4.9	48
146	ZnO nanorods array based field-effect transistor biosensor for phosphate detection. <i>Journal of Colloid and Interface Science</i> , 2017 , 498, 292-297	9.3	71
145	Fabrication of a robust and highly sensitive nitrate biosensor based on directly grown zinc oxide nanorods on a silver electrode. <i>New Journal of Chemistry</i> , 2017 , 41, 10992-10997	3.6	13
144	Ambient-air-solution-processed efficient and highly stable perovskite solar cells based on CH ₃ NH ₃ PbI ₃ /Clx-NiO composite with Al ₂ O ₃ /NiO interfacial engineering. <i>Nano Energy</i> , 2017 , 40, 408-417	17.1	48
143	A Highly Sensitive Nonenzymatic Sensor Based on Fe ₂ O ₃ Nanoparticle Coated ZnO Nanorods for Electrochemical Detection of Nitrite. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700691	4.6	45
142	Nozzle-jet printed flexible field-effect transistor biosensor for high performance glucose detection. <i>Journal of Colloid and Interface Science</i> , 2017 , 506, 188-196	9.3	35
141	Highly Efficient Non-Enzymatic Glucose Sensor Based on CuO Modified Vertically-Grown ZnO Nanorods on Electrode. <i>Scientific Reports</i> , 2017 , 7, 5715	4.9	161
140	Low-temperature sintering of highly conductive silver ink for flexible electronics. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 8522-8527	7.1	43
139	Outstanding Antibiofilm Features of Quanta-CuO Film on Glass Surface. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15128-37	9.5	35
138	Rapid methyl orange degradation using porous ZnO spheres photocatalyst. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016 , 161, 312-7	6.7	45
137	Ammonium ion detection in solution using vertically grown ZnO nanorod based field-effect transistor. <i>RSC Advances</i> , 2016 , 6, 54836-54840	3.7	38
136	Mesoporous ZnO nanoclusters as an ultra-active photocatalyst. <i>Ceramics International</i> , 2016 , 42, 9519-9526	5.2	41
135	Parametric Study of Nozzle-Jet Printing for Directly Drawn ZnO Field-Effect Transistors. <i>Science of Advanced Materials</i> , 2016 , 8, 148-155	2.3	9
134	Effect of Structural Shapes of Scattering Layer on Energy Conversion Efficiency in Dye-Sensitized Solar Cells. <i>Science of Advanced Materials</i> , 2016 , 8, 236-240	2.3	2
133	Effect of Annealing Atmosphere on the Optical and Electrical Properties of Al-Doped ZnO Films and ZnO Nanorods Grown by Solution Process. <i>Science of Advanced Materials</i> , 2016 , 8, 1523-1529	2.3	6
132	Hierarchically assembled ZnO nanosheets microspheres for enhanced glucose sensing performances. <i>Ceramics International</i> , 2016 , 42, 13464-13469	5.1	16
131	Air-stable, hole-conductor-free high photocurrent perovskite solar cells with CH ₃ NH ₃ PbI ₃ /NiO nanoparticles composite. <i>Nano Energy</i> , 2016 , 27, 535-544	17.1	61

130	Efficient bulk heterojunction hybrid solar cells with graphene-silver nanoparticles composite synthesized by microwave-assisted reduction. <i>Nano Energy</i> , 2016 , 28, 179-187	17.1	31
129	Silver-ethanolamine-formate complex based transparent and stable ink: Electrical assessment with microwave plasma vs thermal sintering. <i>Chemical Engineering Journal</i> , 2016 , 306, 796-805	14.7	26
128	Enhanced anticancer potency using an acid-responsive ZnO-incorporated liposomal drug-delivery system. <i>Nanoscale</i> , 2015 , 7, 4088-96	7.7	50
127	Multi-synergetic ZnO platform for high performance cancer therapy. <i>Chemical Communications</i> , 2015 , 51, 2585-8	5.8	13
126	A comprehensive biosensor integrated with a ZnO nanorod FET array for selective detection of glucose, cholesterol and urea. <i>Chemical Communications</i> , 2015 , 51, 11968-71	5.8	73
125	Direct growth of GaN layer on carbon nanotube-graphene hybrid structure and its application for light emitting diodes. <i>Scientific Reports</i> , 2015 , 5, 7747	4.9	47
124	Fabrication of highly sensitive uric acid biosensor based on directly grown ZnO nanosheets on electrode surface. <i>Sensors and Actuators B: Chemical</i> , 2015 , 206, 146-151	8.5	92
123	A robust enzymeless glucose sensor based on CuO nanoseed modified electrodes. <i>Dalton Transactions</i> , 2015 , 44, 12488-92	4.3	38
122	ZnO hybrid photovoltaics with variable side-chain lengths of thienothiophene polymer. <i>Thin Solid Films</i> , 2015 , 576, 38-41	2.2	5
121	High performance cholesterol sensor based on ZnO nanotubes grown on Si/Ag electrodes. <i>Electrochemistry Communications</i> , 2014 , 38, 4-7	5.1	64
120	Highly stable urea sensor based on ZnO nanorods directly grown on Ag/glass electrodes. <i>Sensors and Actuators B: Chemical</i> , 2014 , 194, 290-295	8.5	62
119	Cholesterol biosensing based on highly immobilized ChOx on ZnO hollow nanospheres. <i>RSC Advances</i> , 2014 , 4, 46049-46053	3.7	10
118	Lateral growth of ZnO nanorod arrays in polyhedral structures for high on-current field-effect transistors. <i>Chemical Communications</i> , 2014 , 50, 10502-5	5.8	6
117	Tailored lysozyme-ZnO nanoparticle conjugates as nanoantibiotics. <i>Chemical Communications</i> , 2014 , 50, 9298-301	5.8	45
116	Highly sensitive hydrazine chemical sensor based on ZnO nanorods field-effect transistor. <i>Chemical Communications</i> , 2014 , 50, 1890-3	5.8	93
115	Photocatalytic degradation of methyl orange dye by ZnO nanoneedle under UV irradiation. <i>Materials Letters</i> , 2014 , 136, 171-174	3.3	76
114	Front-illuminated dye-sensitized solar cells with Ag nanoparticle-functionalized freestanding TiO ₂ nanotube arrays. <i>Chemical Physics Letters</i> , 2014 , 614, 78-81	2.5	18
113	Glucose-assisted synthesis of Cu ₂ O shuriken-like nanostructures and their application as nonenzymatic glucose biosensors. <i>Sensors and Actuators B: Chemical</i> , 2014 , 203, 471-476	8.5	79

112	Development of Highly Sensitive and Selective Cholesterol Biosensor Based on Cholesterol Oxidase Co-Immobilized with β -Fe ₂ O ₃ Micro-Pine Shaped Hierarchical Structures. <i>Electrochimica Acta</i> , 2014 , 135, 396-403	6.7	39
111	Effect of ZnO nanoparticles aggregation on the toxicity in RAW 264.7 murine macrophage. <i>Journal of Hazardous Materials</i> , 2014 , 270, 110-7	12.8	63
110	Low temperature preparation of CuO nanospheres and urchin-shaped structures via hydrothermal route. <i>Journal of Alloys and Compounds</i> , 2014 , 609, 211-214	5.7	12
109	Highly conductive and dispersible graphene and its application in P3HT-based solar cells. <i>Chemical Communications</i> , 2014 , 50, 8705-8	5.8	37
108	Spruce branched β -Fe ₂ O ₃ nanostructures as potential scaffolds for a highly sensitive and selective glucose biosensor. <i>New Journal of Chemistry</i> , 2014 , 38, 5873-5879	3.6	21
107	Low-temperature growth of aligned ZnO nanorods: effect of annealing gases on the structural and optical properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 4564-9	1.3	5
106	Excellent enhancement in the device performance of nitrogen plasma treated ZnO nanorods based diodes. <i>Nano Convergence</i> , 2014 , 1,	9.2	7
105	Improved Energy Conversion Efficiency of Dye-sensitized Solar Cells Fabricated using Open-ended TiO ₂ Nanotube Arrays with Scattering Layer. <i>Bulletin of the Korean Chemical Society</i> , 2014 , 35, 1165-1168 ^{1.2}	1.2	10
104	Wide linear-range detecting nonenzymatic glucose biosensor based on CuO nanoparticles inkjet-printed on electrodes. <i>Analytical Chemistry</i> , 2013 , 85, 10448-54	7.8	145
103	A comprehensive in vitro and in vivo study of ZnO nanoparticles toxicity. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 2985-2992	7.3	85
102	Gas sensing properties of single crystalline ZnO nanowires grown by thermal evaporation technique. <i>Current Applied Physics</i> , 2013 , 13, 1769-1773	2.6	28
101	Impact of chemical treatment on the surface, structure, optical and electrical properties of SnS thin films. <i>Applied Surface Science</i> , 2013 , 268, 317-322	6.7	14
100	Metal-ion doped p-type TiO ₂ thin films and their applications for heterojunction devices. <i>Journal of Alloys and Compounds</i> , 2013 , 553, 188-193	5.7	15
99	High-performance cholesterol sensor based on the solution-gated field effect transistor fabricated with ZnO nanorods. <i>Biosensors and Bioelectronics</i> , 2013 , 45, 281-6	11.8	92
98	Green chemistry of glucose-capped ferromagnetic hcp-nickel nanoparticles and their reduced toxicity. <i>RSC Advances</i> , 2013 , 3, 9698	3.7	23
97	Copper oxide quantum dot ink for inkjet-driven digitally controlled high mobility field effect transistors. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 2112	7.1	27
96	Vertical alignment of liquid crystals with zinc oxide nanorods. <i>Nanotechnology</i> , 2013 , 24, 345702	3.4	8
95	Thermoelectric properties of SrTiO ₃ nano-particles dispersed indium selenide bulk composites. <i>Applied Physics Letters</i> , 2013 , 102, 223901	3.4	21

94	Band alignment effects at the metal electrode interface of poly(3-hexylthiophene):zinc oxide hybrid photovoltaics. <i>Applied Physics Letters</i> , 2013 , 102, 081607	3.4	3
93	Effect of gas atmosphere on Ag-embedded ZnO nanofilms: structural, optical and electrical properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 6860-5	1.3	
92	Conjugated Polymer/Sn-Doped ZnO Nanowires for Heterojunction Hybrid Solar Cells. <i>Science of Advanced Materials</i> , 2013 , 5, 499-504	2.3	3
91	Comprehensive Study on the Toxicology of Surface-Coated ZnO Nanoparticles in Human Alveolar Adenocarcinoma (A549) Cells. <i>Science of Advanced Materials</i> , 2013 , 5, 421-429	2.3	3
90	Direct fabrication of ZnO nanorods array on-chip system in solution and their electrical properties. <i>Electrochemistry Communications</i> , 2012 , 18, 88-91	5.1	19
89	Growth of high aspect ratio ZnO nanorods by solution process: Effect of polyethyleneimine. <i>Journal of Solid State Chemistry</i> , 2012 , 189, 25-31	3.3	31
88	Etch-free selective area growth of well-aligned ZnO nanorod arrays by economical polymer mask for large-area solar cell applications. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 98, 476-481	6.4	19
87	Highly selective wide linear-range detecting glucose biosensors based on aspect-ratio controlled ZnO nanorods directly grown on electrodes. <i>Sensors and Actuators B: Chemical</i> , 2012 , 174, 195-201	8.5	63
86	Time-dependent control of hole-opening degree of porous ZnO hollow microspheres. <i>Inorganic Chemistry</i> , 2012 , 51, 1104-10	5.1	55
85	Wide linear-range detecting high sensitivity cholesterol biosensors based on aspect-ratio controlled ZnO nanorods grown on silver electrodes. <i>Sensors and Actuators B: Chemical</i> , 2012 , 169, 382-386	8.5	48
84	Phase separations in graded-indium content InGaN/GaN multiple quantum wells and its function to high quantum efficiency. <i>Journal of Semiconductors</i> , 2012 , 33, 053001	2.3	
83	Chemical and biological sensors based on metal oxide nanostructures. <i>Chemical Communications</i> , 2012 , 48, 10369-85	5.8	191
82	Inkjet printed fractal-connected electrodes with silver nanoparticle ink. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 3300-7	9.5	55
81	Robust and multifunctional nanosheath for chemical and biological nanodevices. <i>Nano Letters</i> , 2012 , 12, 1891-7	11.5	20
80	Stoichiometry-controlled growth of Ba _x Sr _{1-x} TiO ₃ thin films and their electrical behavior in heterojunction assemblies. <i>RSC Advances</i> , 2012 , 2, 10255	3.7	5
79	Synthesis of ZnO nanoparticles and their ink-jetting behavior. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 2380-6	1.3	16
78	Nanocrystalline Thin Films of Cu, CuO and Cu ₂ O Synthesized by Electroless Deposition. <i>Science of Advanced Materials</i> , 2012 , 4, 23-28	2.3	7
77	Solution-Processed Solid-State Solar Cells of ZnO/CuO Core/Shell Nanrods. <i>Science of Advanced Materials</i> , 2012 , 4, 978-984	2.3	6

76	Stimulative Effects of Hominis Placental Pharmacopuncture Solution Combined with Zinc-oxide Nanoparticles on RAW 264.7 Cells: ZnO HPPS more easily stimulates RAW 264.7 cells. <i>Journal of Pharmacopuncture</i> , 2012 , 15, 13-8	1.6	1
75	High performance field-effect transistors fabricated with laterally grown ZnO nanorods in solution. <i>Nanotechnology</i> , 2011 , 22, 185310	3.4	33
74	Parametric study of cost-effective synthesis of crystalline copper nanoparticles and their crystallographic characterization. <i>Materials Chemistry and Physics</i> , 2011 , 125, 334-341	4.4	41
73	Studying trivalent/bivalent metal ion doped TiO ₂ as p-TiO ₂ in bipolar heterojunction devices. <i>Materials Chemistry and Physics</i> , 2011 , 129, 887-891	4.4	3
72	Influence of aqueous hexamethylenetetramine on the morphology of self-assembled SnO ₂ nanocrystals. <i>Materials Research Bulletin</i> , 2011 , 46, 609-614	5.1	20
71	Structural evolution of SnO ₂ nanostructure from core-shell faceted pyramids to nanorods and its gas-sensing properties. <i>Journal of Crystal Growth</i> , 2011 , 314, 171-179	1.6	19
70	Zinc oxide nanostructures and their applications. <i>Korean Journal of Chemical Engineering</i> , 2011 , 28, 1797-1813	1.3	89
69	Interfacial and electrical properties of solution processed p-TiO ₂ in heterojunction devices. <i>Electrochemistry Communications</i> , 2011 , 13, 350-354	5.1	7
68	Solution processed Ni-doped TiO ₂ p-type channel in field effect transistor assembly with . <i>Applied Physics Letters</i> , 2011 , 98, 202102	3.4	10
67	Structural, Optical and Electrical Properties of N-doped ZnO Nanofilms by Plasma Enhanced Atomic Layer Deposition. <i>Korean Chemical Engineering Research</i> , 2011 , 49, 357-360		2
66	Optical, mechanical and etch properties of amorphous carbon nitride films grown by plasma enhanced chemical vapor deposition at room temperature. <i>Synthetic Metals</i> , 2010 , 160, 2442-2446	3.6	3
65	Heterojunction bipolar assembly with Cr _x Ti _{1-x} O ₂ thin films and vertically aligned ZnO nanorods. <i>Materials Chemistry and Physics</i> , 2010 , 124, 704-708	4.4	3
64	Electrical and gas sensing properties of ZnO nanorod arrays directly grown on a four-probe electrode system. <i>Electrochemistry Communications</i> , 2010 , 12, 475-478	5.1	49
63	Single ZnO nanowire based high-performance field effect transistors (FETs). <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 5839-44	1.3	4
62	Single ZnO nanobelt based field effect transistors (FETs). <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 5745-51	1.3	16
61	ZnO nanorods based hydrazine sensors. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 4686-91	1.3	49
60	Rapid synthesis and dye-sensitized solar cell applications of hexagonal-shaped ZnO nanorods. <i>Electrochimica Acta</i> , 2009 , 54, 5358-5362	6.7	54
59	MgO polyhedral nanocages and nanocrystals based glucose biosensor. <i>Electrochemistry Communications</i> , 2009 , 11, 1353-1357	5.1	62

58	Growth, properties and dye-sensitized solar cells—Applications of ZnO nanorods grown by low-temperature solution process. <i>Superlattices and Microstructures</i> , 2009 , 45, 529-534	2.8	73
57	Ultra-sensitive cholesterol biosensor based on low-temperature grown ZnO nanoparticles. <i>Electrochemistry Communications</i> , 2009 , 11, 118-121	5.1	170
56	Enzymatic glucose biosensor based on flower-shaped copper oxide nanostructures composed of thin nanosheets. <i>Electrochemistry Communications</i> , 2009 , 11, 278-281	5.1	138
55	Ultra-sensitive hydrazine chemical sensor based on high-aspect-ratio ZnO nanowires. <i>Talanta</i> , 2009 , 77, 1376-80	6.2	108
54	Highly-sensitive cholesterol biosensor based on well-crystallized flower-shaped ZnO nanostructures. <i>Talanta</i> , 2009 , 78, 284-9	6.2	157
53	Hexagonally patterned selective growth of well-aligned ZnO nanorod arrays. <i>Journal of Alloys and Compounds</i> , 2009 , 484, 17-20	5.7	33
52	Growth of Highly c-Axis-Oriented ZnO Nanorods on ZnO/Glass Substrate: Growth Mechanism, Structural, and Optical Properties. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 14715-14720	3.8	70
51	Seedless Pattern Growth of Quasi-Aligned ZnO Nanorod Arrays on Cover Glass Substrates in Solution. <i>Nanoscale Research Letters</i> , 2009 , 5, 669-74	5	30
50	Structural properties and growth mechanism of flower-like ZnO structures obtained by simple solution method. <i>Materials Research Bulletin</i> , 2008 , 43, 3483-3489	5.1	67
49	Growth mechanism and optical properties of aligned hexagonal ZnO nanoprisms synthesized by noncatalytic thermal evaporation. <i>Inorganic Chemistry</i> , 2008 , 47, 4088-94	5.1	38
48	Low-Temperature Synthesis of Flower-Shaped CuO Nanostructures by Solution Process: Formation Mechanism and Structural Properties. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 5729-5735	3.8	155
47	Flower-shaped CuO nanostructures: Structural, photocatalytic and XANES studies. <i>Catalysis Communications</i> , 2008 , 10, 11-16	3.2	142
46	Ultraviolet-Emitting ZnO Nanostructures on Steel Alloy Substrates: Growth and Properties. <i>Crystal Growth and Design</i> , 2008 , 8, 2741-2747	3.5	51
45	Zinc oxide nanonail based chemical sensor for hydrazine detection. <i>Chemical Communications</i> , 2008 , 1664-8	3.8	401
44	Temperature-dependant non-catalytic growth of ultraviolet-emitting ZnO nanostructures on silicon substrate by thermal evaporation process. <i>Journal of Alloys and Compounds</i> , 2008 , 463, 516-521	5.7	32
43	Synthesis and characterization of triphenylamine-3-hexylthiophene oligomer hybrids: A triphenylamine core carrying three terthiophene branches and triphenylamine end-capped quaterthiophene. <i>Synthetic Metals</i> , 2008 , 158, 150-156	3.6	14
42	Role of the Vapor Composition in the Evolution from 1D to 2D ZnO Nanostructures. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 17926-17930	3.8	7
41	Low-temperature growth and properties of CuO structures prepared by aqueous solution process. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 5511-5	1.3	9

40	ZnO nanonails: synthesis and their application as glucose biosensor. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 3216-21	1.3	80
39	Large-quantity synthesis of ZnO hollow objects by thermal evaporation: Growth mechanism, structural and optical properties. <i>Applied Surface Science</i> , 2008 , 254, 3339-3346	6.7	17
38	Fabrication of ZnO nanowires using nanoscale spacer lithography for gas sensors. <i>Small</i> , 2008 , 4, 1105-9	11	124
37	The synthesis of ZnO nanowires and their subsequent use in high-current field-effect transistors formed by dielectrophoresis alignment. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 866-872	3	27
36	Evolution of ZnO nanostructures by non-catalytic growth process on steel alloy substrate: Structural and optical properties. <i>Current Applied Physics</i> , 2008 , 8, 798-802	2.6	10
35	Low-temperature growth and properties of flower-shaped - Ni(OH) ₂ and NiO structures composed of thin nanosheets networks. <i>Superlattices and Microstructures</i> , 2008 , 44, 216-222	2.8	34
34	Formation of hierarchical ZnO nanostructures - nanocombs - Growth mechanism, structural and optical properties. <i>Current Applied Physics</i> , 2008 , 8, 793-797	2.6	11
33	Optical and electrical properties of ZnO nanowires grown on aluminium foil by non-catalytic thermal evaporation. <i>Nanotechnology</i> , 2007 , 18, 175606	3.4	74
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