

Yeon-Tae Yu

List of Publications by Year in descending order

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103
papers

4,225
citations

117625

34
h-index

123424

61
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106
all docs

106
docs citations

106
times ranked

5190
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of gold catalyst on the sensing behavior of ZnO nanorods for CO and NO ₂ gases. <i>Sensors and Actuators B: Chemical</i> , 2012, 165, 133-142.	7.8	245
2	Synthesis of Core-Shell Au@TiO ₂ Nanoparticles with Truncated Wedge-Shaped Morphology and Their Photocatalytic Properties. <i>Langmuir</i> , 2009, 25, 6438-6447.	3.5	226
3	Noble metal@metal oxide semiconductor core-shell nano-architectures as a new platform for gas sensor applications. <i>RSC Advances</i> , 2015, 5, 76229-76248.	3.6	185
4	Solvothermal Synthesis of ZnO Nanostructures and Their Morphology-Dependent Gas-Sensing Properties. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 3026-3032.	8.0	183
5	Facile Approach to Synthesize Au@ZnO Core-Shell Nanoparticles and Their Application for Highly Sensitive and Selective Gas Sensors. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 9462-9468.	8.0	167
6	Au@NiO core-shell nanoparticles as a p-type gas sensor: Novel synthesis, characterization, and their gas sensing properties with sensing mechanism. <i>Sensors and Actuators B: Chemical</i> , 2018, 268, 223-231.	7.8	162
7	Au@Cu ₂ O core-shell nanoparticles as chemiresistors for gas sensor applications: effect of potential barrier modulation on the sensing performance. <i>Nanoscale</i> , 2014, 6, 581-588.	5.6	150
8	Synthesis of flower-like ZnO microstructures for gas sensor applications. <i>Sensors and Actuators B: Chemical</i> , 2013, 178, 107-112.	7.8	143
9	Citrate-assisted hydrothermal synthesis of single crystalline ZnO nanoparticles for gas sensor application. <i>Sensors and Actuators B: Chemical</i> , 2012, 173, 58-65.	7.8	133
10	Microwave assisted hydrothermal synthesis of single crystalline ZnO nanorods for gas sensor application. <i>Materials Letters</i> , 2012, 68, 90-93.	2.6	107
11	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.	7.8	98
12	Fabrication of aggregated In ₂ O ₃ nanospheres for highly sensitive acetaldehyde gas sensors. <i>Journal of Alloys and Compounds</i> , 2019, 772, 834-842.	5.5	90
13	Examination of Au/SnO ₂ core-shell architecture nanoparticle for low temperature gas sensing applications. <i>Sensors and Actuators B: Chemical</i> , 2011, 157, 444-449.	7.8	84
14	Superfast and efficient hydrogen gas sensor using PdAu _{alloy} @ZnO core-shell nanoparticles. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12968-12974.	10.3	81
15	Enhanced H ₂ gas sensing properties of Au@In ₂ O ₃ core-shell hybrid metal-semiconductor heteronanostructures. <i>CrystEngComm</i> , 2016, 18, 3655-3666.	2.6	78
16	Effect of Au Nanorods on Potential Barrier Modulation in Morphologically Controlled Au@Cu ₂ O Core-Shell Nanoreactors for Gas Sensor Applications. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7491-7497.	8.0	75
17	Hydrothermal synthesis of single-crystalline nanocubes of Co ₃ O ₄ . <i>Materials Letters</i> , 2008, 62, 1006-1009.	2.6	63
18	Hydrothermal synthesis of In ₂ O ₃ nanocubes for highly responsive and selective ethanol gas sensing. <i>Journal of Alloys and Compounds</i> , 2020, 820, 153133.	5.5	59

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19	Construction of novel hybrid PdO@ZnO heterojunction nanostructures as a high-response sensor for acetaldehyde gas. <i>CrystEngComm</i> , 2019, 21, 5084-5094.	2.6	57
20	Microwave assisted hydrothermal synthesis of Au@TiO ₂ core-shell nanoparticles for high temperature CO sensing applications. <i>Sensors and Actuators B: Chemical</i> , 2013, 186, 633-639.	7.8	54
21	Functionalization of ZnO nanorods by CuO nanospikes for gas sensor applications. <i>RSC Advances</i> , 2014, 4, 23604.	3.6	53
22	Au@CeO ₂ nanoparticles supported Pt/C electrocatalyst to improve the removal of CO in methanol oxidation reaction. <i>Journal of Catalysis</i> , 2019, 377, 589-599.	6.2	52
23	Fabrication of flower-like ZnO microstructures from ZnO nanorods and their photoluminescence properties. <i>Materials Chemistry and Physics</i> , 2010, 124, 406-412.	4.0	49
24	Synthesis of plasmonic Ag@SnO ₂ core-shell nanoreactors for xylene detection. <i>RSC Advances</i> , 2015, 5, 17653-17659.	3.6	46
25	Synthesis of TiO ₂ hollow spheres by selective etching of Au@TiO ₂ core-shell nanoparticles for dye sensitized solar cell applications. <i>RSC Advances</i> , 2014, 4, 3529-3535.	3.6	45
26	Pt-loaded Au@CeO ₂ core-shell nanocatalysts for improving methanol oxidation reaction activity. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26996-27006.	10.3	45
27	Plasmonically driven photocatalytic hydrogen evolution activity of a Pt-functionalized Au@CeO ₂ core-shell catalyst under visible light. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7687-7694.	10.3	45
28	Fabrication and properties of flower-shaped Pt@TiO ₂ core-shell nanoparticles. <i>Materials Letters</i> , 2010, 64, 2208-2210.	2.6	44
29	Synthesis of floral assembly with single crystalline ZnO nanorods and its CO sensing property. <i>Sensors and Actuators B: Chemical</i> , 2012, 161, 748-754.	7.8	44
30	Effect of core and surface area toward hydrogen gas sensing performance using Pd@ZnO core-shell nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2021, 587, 252-259.	9.4	44
31	Insightful understanding of hot-carrier generation and transfer in plasmonic Au@CeO ₂ core-shell photocatalysts for light-driven hydrogen evolution improvement. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119947.	20.2	43
32	Preparation of nanocrystalline TiO ₂ -coated coal fly ash and effect of iron oxides in coal fly ash on photocatalytic activity. <i>Powder Technology</i> , 2004, 146, 154-159.	4.2	40
33	Anisotropic Thermal Interface Materials: Directional Heat Transfer in Uniaxially Oriented Liquid Crystal Networks. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 35557-35562.	8.0	40
34	Ionic liquid-assisted preparation of Ag-CeO ₂ nanocomposites and their improved photocatalytic activity. <i>Materials and Design</i> , 2018, 159, 186-194.	7.0	39
35	Ionic liquid-supported synthesis of CeO ₂ nanoparticles and its enhanced ethanol gas sensing properties. <i>Materials Chemistry and Physics</i> , 2019, 231, 1-8.	4.0	35
36	Synthesis of Au/SnO ₂ core-shell structure nanoparticles by a microwave-assisted method and their optical properties. <i>Journal of Solid State Chemistry</i> , 2011, 184, 312-316.	2.9	34

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37	Remote-Controllable Molecular Knob in the Mesomorphic Helical Superstructures. <i>Advanced Functional Materials</i> , 2016, 26, 4242-4251.	14.9	34
38	Synthesis and characterization of porous ZnO nanoparticles by hydrothermal treatment of as pure aqueous precursor. <i>Materials Research Bulletin</i> , 2011, 46, 525-530.	5.2	32
39	Synthesis, growth mechanism and photoluminescence of monodispersed cubic shape Ce doped YAG nanophosphor. <i>Ceramics International</i> , 2012, 38, 235-242.	4.8	32
40	Ultraviolet-C Photodetector Fabricated Using Si-Doped n-AlGaN Nanorods Grown by MOCVD. <i>ACS Photonics</i> , 2017, 4, 2595-2603.	6.6	32
41	Defect-rich N-doped CeO ₂ supported by N-doped graphene as a metal-free plasmonic hydrogen evolution photocatalyst. <i>Journal of Materials Chemistry A</i> , 2021, 9, 10217-10230.	10.3	32
42	Transparent, pressure-sensitive, and healable e-skin from a UV-cured polymer comprising dynamic urea bonds. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3101-3111.	10.3	31
43	Gas sensing properties of single crystalline ZnO nanowires grown by thermal evaporation technique. <i>Current Applied Physics</i> , 2013, 13, 1769-1773.	2.4	30
44	Synthesis of Au/TiO ₂ Core-Shell Nanoparticles from Titanium Isopropoxide and Thermal Resistance Effect of TiO ₂ Shell. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 2567-2570.	1.5	29
45	Synthesis of Au@SnO ₂ core-shell nanoparticles with controllable shell thickness and their CO sensing properties. <i>Materials Chemistry and Physics</i> , 2015, 166, 87-94.	4.0	28
46	Triple phase boundary and power density enhancement in PEMFCs of a Pt/C electrode with double catalyst layers. <i>RSC Advances</i> , 2019, 9, 15635-15641.	3.6	26
47	High response and selectivity toward hydrogen gas detection by In ₂ O ₃ doped Pd@ZnO core-shell nanoparticles. <i>Journal of Alloys and Compounds</i> , 2021, 854, 157280.	5.5	26
48	Plasmonic Au nanoclusters dispersed in nitrogen-doped graphene as a robust photocatalyst for light-to-hydrogen conversion. <i>Journal of Materials Chemistry A</i> , 2021, 9, 22810-22819.	10.3	26
49	Synthesis and characterization of Au/TiO ₂ core-shell structure nanoparticles. <i>Korean Journal of Chemical Engineering</i> , 2003, 20, 1176-1182.	2.7	24
50	Ag@SnO ₂ core-shell structure nanocomposites. <i>Chemical Physics Letters</i> , 2007, 442, 101-104.	2.6	24
51	Synthesis of violet light emitting single crystalline ZnO nanorods by using CTAB-assisted hydrothermal method. <i>Journal of Materials Science: Materials in Electronics</i> , 2009, 20, 967-971.	2.2	24
52	Energy coupling processes in InGaN/GaN nanopillar light emitting diodes embedded with Ag and Ag/SiO ₂ nanoparticles. <i>Journal of Materials Chemistry</i> , 2012, 22, 21749.	6.7	24
53	Photopolymerization of Reactive Amphiphiles: Automatic and Robust Vertical Alignment Layers of Liquid Crystals with a Strong Surface Anchoring Energy. <i>Macromolecules</i> , 2016, 49, 23-29.	4.8	24
54	Superhigh sensing response and selectivity for hydrogen gas using PdPt@ZnO core-shell nanoparticles: Unique effect of alloyed ingredient from experimental and theoretical investigations. <i>Sensors and Actuators B: Chemical</i> , 2022, 354, 131083.	7.8	24

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55	Influence of carbon precursors on thermal plasma assisted synthesis of SiC nanoparticles. <i>Advanced Powder Technology</i> , 2014, 25, 640-646.	4.1	22
56	Stimuli-responsive liquid crystal physical gels based on the hierarchical superstructures of benzene-1,3,5-tricarboxamide macrogelators. <i>Polymer Chemistry</i> , 2017, 8, 1888-1894.	3.9	22
57	Synthesis and electrophoretic deposition of hollow-TiO ₂ nanoparticles for dye sensitized solar cell applications. <i>Journal of Alloys and Compounds</i> , 2016, 672, 212-222.	5.5	20
58	Polarized Light Emission from Uniaxially Oriented and Polymer-Stabilized AIE Luminogen Thin Films. <i>Macromolecules</i> , 2019, 52, 1739-1745.	4.8	20
59	Topochemical polymerization of dumbbell-shaped diacetylene monomers: relationship between chemical structure, molecular packing structure, and gelation property. <i>Soft Matter</i> , 2017, 13, 5759-5766.	2.7	19
60	CTAB-assisted hydrothermal synthesis of single-crystalline copper-doped ZnO nanorods and investigation of their photoluminescence properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2010, 21, 1036-1041.	2.2	18
61	Revisiting the thickness reduction approach for near-foldable capacitive touch sensors based on a single layer of Ag nanowire-polymer composite structure. <i>Composites Science and Technology</i> , 2018, 165, 58-65.	7.8	18
62	Highly Efficient Photoelectrochemical Water Splitting Using GaN-Nanowire Photoanode with Tungsten Sulfides. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 58028-58037.	8.0	18
63	Synthesis and fluorescence properties of pure and metal-doped spherical ZnS particles from EDTA-metal complexes. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 153-160.	4.0	17
64	Quantum efficiency control of InGaN/GaN multi-quantum-well structures using Ag/SiO ₂ core-shell nanoparticles. <i>Applied Physics Letters</i> , 2011, 99, 251114.	3.3	17
65	Enhanced electrocatalytic property of Pt/C electrode with double catalyst layers for PEMFC. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 24580-24590.	7.1	17
66	Light-to-Hydrogen Improvement Based on Three-Factored Au@CeO ₂ /Gr Hierarchical Photocatalysts. <i>ACS Nano</i> , 2022, 16, 7848-7860.	14.6	16
67	Synthesis of Nanosized Silicon Carbide Through Non-Transferred Arc Thermal Plasma. <i>Plasma Chemistry and Plasma Processing</i> , 2012, 32, 211-218.	2.4	15
68	Microwave assisted synthesis of flower-like ZnO and effect of annealing atmosphere on its photoluminescence property. <i>Journal of Materials Science: Materials in Electronics</i> , 2012, 23, 344-348.	2.2	15
69	Effect of the Nafion content in the MPL on the catalytic activity of the Pt/C-Nafion electrode prepared by pulsed electrophoresis deposition. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 1181-1188.	7.1	15
70	Polyol-assisted synthesis of TiO ₂ nanoparticles in a semi-aqueous solvent. <i>Journal of Physics and Chemistry of Solids</i> , 2009, 70, 147-152.	4.0	14
71	Effect of the deposition time on the electrocatalytic activity of Pt/C catalyst electrodes prepared by pulsed electrophoresis deposition method. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 3606-3613.	7.1	14
72	Hydrothermal growth and characterization of ZnO thin film on sapphire (0001) substrate with p-GaN buffer layer. <i>Thin Solid Films</i> , 2008, 516, 8244-8247.	1.8	13

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73	Conversion of ZnO microrods into microdisks like structures and its effect on photoluminescence properties. <i>Ceramics International</i> , 2013, 39, 8287-8291.	4.8	13
74	Preparation of Pt/C electrode with double catalyst layers by electrophoresis deposition method for PEMFC. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 3381-3386.	7.1	13
75	Morphology controlled Ag@SiO ₂ core-shell nanoparticles by ascorbic acid reduction. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 1156-1161.	2.2	13
76	Thermal plasma synthesis of Si/SiC nanoparticles from silicon and activated carbon powders. <i>Ceramics International</i> , 2016, 42, 16469-16473.	4.8	13
77	Fabrication and Characterization of a Capacitive Photodetector Comprising a ZnS/Cu Particle/Poly(vinyl butyral) Composite. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 4416-4424.	8.0	13
78	Core and dopant effects toward hydrogen gas sensing activity using Pd@N-CeO ₂ core-shell nanoflatforms. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 95, 325-332.	5.8	13

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91	Synthesis and Photocatalytic Property of Metal@SnO ₂ Core-Shell Structure Nanocomposites. Journal of Nanoscience and Nanotechnology, 2011, 11, 453-457.	0.9	8
92	Improvement in the photoelectrochemical water-splitting performance using GaN nanowires with bundle structures. Journal of Materials Chemistry C, 2021, 9, 12802-12810.	5.5	8
93	Drastic improvement in photoelectrochemical water splitting performance over prolonged reaction time using new carrier-guiding semiconductor nanostructures. Journal of Materials Chemistry A, 2022, 10, 9821-9829.	10.3	8
94	Growth of ZnO thin film on p-GaN/sapphire (0001) by simple hydrothermal technique. Journal of Crystal Growth, 2008, 310, 570-574.	1.5	7
95	Sintering Behavior of Spark Plasma Sintered SiC with Si-SiC Composite Nanoparticles Prepared by Thermal DC Plasma Process. Nanoscale Research Letters, 2017, 12, 606.	5.7	7
96	Photoelectrochemical water-splitting using GaN pyramidal dots and their long-term stability in the two-electrode configuration. Journal of Materials Chemistry A, 2022, 10, 10355-10362.	10.3	7
97	Nano-architecture platinum catalyst layer prepared by electrophoresis deposition for PEM fuel cells. Journal of Solid State Electrochemistry, 2012, 16, 1377-1381.	2.5	6
98	Hydrothermal growth of single crystal ZnO nanorods on surface-modified graphite. Electronic Materials Letters, 2013, 9, 715-718.	2.2	6
99	Facile preparation of ZnO nanosheets and its photocatalytic activity in the degradation of rhodamine B dye under UV irradiation. Electronic Materials Letters, 2016, 12, 784-788.	2.2	6
100	Investigating the mechanism of uniform Ag@SiO ₂ core-shell nanostructures synthesis by a one-pot sol-gel method. Journal of Sol-Gel Science and Technology, 2020, 96, 679-689.	2.4	5
101	CO gas-sensing properties of CuO-TiN and CuO-TiN-TiO ₂ prepared by controlled oxidation of Cu-TiN composites. Metals and Materials International, 2015, 21, 330-336.	3.4	4
102	Pd supported N-doped CeO ₂ as an efficient hydrogen oxidation reaction catalyst in PEMFC. New Journal of Chemistry, 2020, 44, 17203-17207.	2.8	3
103	Electrophoretic deposition of CdSe@CdZnS/ZnS multi core-shell QDs for quantum efficiency control of InGaN/GaN MQW LEDs. RSC Advances, 2016, 6, 95032-95037.	3.6	1