

Jun-Seok Ha

List of Publications by Year in descending order

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52
papers

610
citations

687363

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52
docs citations

52
times ranked

897
citing authors

#	ARTICLE	IF	CITATIONS
1	Rationally engineered BiVO ₄ micro-leaves as a bifunctional photocatalyst for highly durable solar water treatment and water splitting. Journal of Environmental Chemical Engineering, 2022, 10, 106946.	6.7	11
2	Ni ₃ (PO ₄) ₂ Cocatalyst-Supported ZnGa ₂ O ₃ /GaN Photoanodes for Highly Stable Solar Water Splitting. ACS Applied Energy Materials, 2022, 5, 2169-2183.	5.1	6
3	Simple Fabrication of BiVO ₄ Thin Films Synthesized by Modified SILAR Method: Effect of Film Thickness. Journal of the Electrochemical Society, 2022, 169, 016501.	2.9	4
4	Effects of Ag Nanoparticle Coated Metal Electrodes on Electrochemical CO ₂ Reduction in Aqueous KHCO ₃ . Electrochemistry, 2022, 90, 037009-037009.	1.4	1
5	Bifacial Modulation of Carrier Transport in BiVO ₄ Photoanode for Stable Photoelectrochemical Water Splitting via Interface Engineering. Advanced Sustainable Systems, 2022, 6, .	5.3	3
6	Nanostructured Au Electrode with 100 h Stability for Solar-Driven Electrochemical Reduction of Carbon Dioxide to Carbon Monoxide. ACS Omega, 2022, 7, 9422-9429.	3.5	9
7	High Performance, Stable, and Flexible Piezoelectric Nanogenerator Based on GaN:Mg Nanowires Directly Grown on Tungsten Foil. Small, 2022, , 2200952.	10.0	4
8	Self-powered and flexible piezo-sensors based on conductivity-controlled GaN nanowire-arrays for mimicking rapid- and slow-adapting mechanoreceptors. Npj Flexible Electronics, 2022, 6, .	10.7	6
9	Nanostructured CuO with a thin g-C ₃ N ₄ layer as a highly efficient photocathode for solar water splitting. RSC Advances, 2021, 11, 16083-16089.	3.6	15
10	GaN Nanowire Growth Promoted by InGaAu Alloy Catalyst with Emphasis on Agglomeration Temperature and In Composition. ACS Omega, 2021, 6, 3173-3185.	3.5	9
11	Hydrothermal Synthesis of CaMn ₂ O ₄ ·xH ₂ O Nanorods as Co-Catalysts on GaN Nanowire Photoanode. Bulletin of the Korean Chemical Society, 2021, 42, 938-944.	1.9	2
12	Flexible self-powered piezoelectric pressure sensor based on GaN/p-GaN coaxial nanowires. Journal of Alloys and Compounds, 2021, 872, 159661.	5.5	23
13	Highly efficient and stable g-C ₃ N ₄ decorated Ta ₃ N ₅ nanotube on n-Si substrate for solar water oxidation. Applied Surface Science, 2021, 565, 150456.	6.1	8
14	Enhanced performance of a flexible and wearable piezoelectric nanogenerator using semi-insulating GaN:Mg/ZnO coaxial nanowires. Nano Energy, 2021, 90, 106552.	16.0	7
15	Enhanced stability of piezoelectric nanogenerator based on GaN/V ₂ O ₅ core-shell nanowires with capacitive contact. Nanotechnology, 2020, 31, 075401.	2.6	8
16	Drawing the distinguished graphite carbon nitride (g-C ₃ N ₄) on SnO ₂ nanoflake film for solar water oxidation. International Journal of Hydrogen Energy, 2020, 45, 22567-22575.	7.1	12
17	Studies on interstitial carbon doping from a Ti precursor in a hierarchical TiO ₂ nanostructured photoanode by a single step hydrothermal route. RSC Advances, 2020, 10, 28492-28500.	3.6	4
18	Nanoporous Ta ₃ N ₅ via electrochemical anodization followed by nitridation for solar water oxidation. Dalton Transactions, 2020, 49, 15023-15033.	3.3	4

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19	Surfactant-free pH-assisted facile engineering of hierarchical rutile TiO ₂ nanostructures by a single step hydrothermal method for water splitting application. CrystEngComm, 2020, 22, 2462-2471.	2.6	7
20	Functional Blocking Layer of Twisted Tungsten Oxide Nanorod Grown by Electrochemical Anodization for Photoelectrochemical Water Splitting. Journal of the Electrochemical Society, 2020, 167, 066501.	2.9	7
21	Cu ₂ O Heterostructured GaN Thin Film and GaN Nanowire Piezoelectric Nanogenerators. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 1900798.	1.8	5
22	Transparent carbon nanotube web structures with Ni-Pd nanoparticles for electromagnetic interference (EMI) shielding of advanced display devices. Applied Surface Science, 2020, 516, 145745.	6.1	28
23	Pd-Ni nanoalloy decorated carbon nanotubes based efficient and stable silicon photocathode for acidic water splitting. Applied Surface Science, 2020, 510, 145389.	6.1	4
24	Crystal Quality Improvement of In-Ga ₂ O ₃ Growth on Stripe Patterned Template via Epitaxial Lateral Overgrowth. Crystal Growth and Design, 2019, 19, 5105-5110.	3.0	21
25	Multilayered Fluorine Doped SnO ₂ Inverse Opal/WO ₃ /BiVO ₄ Film for Solar Water Oxidation: Systematic Development and Defined Role of Each Layer. Journal of the Electrochemical Society, 2019, 166, H750-H763.	2.9	4
26	Effects of nanoepitaxial lateral overgrowth on growth of In-Ga ₂ O ₃ by halide vapor phase epitaxy. Applied Physics Letters, 2019, 115, .	3.3	17
27	Cu ₂ O Photocathode with Faster Charge Transfer by Fully Reacted Cu Seed Layer to Enhance Performance of Hydrogen Evolution in Solar Water Splitting Applications. ChemCatChem, 2019, 11, 4377-4382.	3.7	15
28	Electrolyte effects on undoped and Mo-doped BiVO ₄ film for photoelectrochemical water splitting. Journal of Electroanalytical Chemistry, 2019, 842, 41-49.	3.8	15
29	Effect of crystal orientation of GaN/V ₂ O ₅ core-shell nanowires on piezoelectric nanogenerators. Nano Energy, 2019, 60, 413-423.	16.0	36
30	Polarity effects of ZnO on charge recombination at CsPbBr ₃ nanoparticles/ZnO interfaces. Applied Surface Science, 2019, 483, 165-169.	6.1	11
31	Highly Stable Bulk GaN Photoanode Grown by Hydride Vapor-Phase Epitaxy for Photoelectrochemical Water Splitting. Journal of the Electrochemical Society, 2019, 166, H103-H107.	2.9	8
32	Enhanced photoelectrochemical stability of GaN photoelectrodes by Al ₂ O ₃ surface passivation layer. Optics Express, 2019, 27, A206.	3.4	19
33	High-performance ZnS/GaN heterostructure photoanode for photoelectrochemical water splitting applications. Acta Materialia, 2018, 146, 171-175.	7.9	55
34	Enhanced performance of GaN-based LEDs via electroplating of a patterned copper layer on the backside. Journal of Materials Science, 2018, 53, 8878-8886.	3.7	5
35	Transparent Electrodes Fabricated from Single Walled Carbon Nanotubes and Ni Nanoparticles with Low Contact Resistance to p-Al _{0.3} Ga _{0.7} N. ECS Journal of Solid State Science and Technology, 2018, 7, Q235-Q238.	1.8	1
36	Eutectic solvent-mediated selective synthesis of Cu ²⁺ S ²⁻ -based nanocrystals: combined experimental and theoretical studies toward highly efficient water splitting. Journal of Materials Chemistry A, 2018, 6, 19798-19809.	10.3	11

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37	Unassisted visible solar water splitting with efficient photoelectrodes sensitized by quantum dots synthesized <i>via</i> an environmentally friendly eutectic solvent-mediated approach. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22566-22579.	10.3	24
38	Stable and High Piezoelectric Output of GaN Nanowire-Based Lead-Free Piezoelectric Nanogenerator by Suppression of Internal Screening. <i>Nanomaterials</i> , 2018, 8, 437.	4.1	38
39	Development of nanoscale Ni-embedded single-wall carbon nanotubes by electroless plating for transparent conductive electrodes of 375 nm AlGaN-based ultraviolet light-emitting diodes. <i>Applied Physics Express</i> , 2016, 9, 082601.	2.4	6
40	Effect of Polarity on Photoelectrochemical Properties of Polar and Semipolar GaN Photoanode. <i>Journal of the Electrochemical Society</i> , 2016, 163, H213-H217.	2.9	10
41	Light output improvement of 10W operated vertical LEDs via surface roughening using a commercialized developer. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 3397-3402.	2.2	8
42	Effect of Double-Layered n-Type GaN on the Photoelectrochemical Properties in NaOH Aqueous Solution. <i>Journal of the Electrochemical Society</i> , 2015, 162, H19-H22.	2.9	2
43	Polarity dependence of the electrical characteristics of Ag reflectors for high-power GaN-based light emitting diodes. <i>Applied Physics Letters</i> , 2014, 104, 172104.	3.3	3
44	The effect of ITO/Mo/MoO ₃ anode multilayer film on efficient hole extraction in MEH-PPV/ZnO NP hybrid solar cells. <i>Ceramics International</i> , 2014, 40, 16281-16285.	4.8	5
45	The Polarity Effect on the Photoelectrochemical Properties of Ga- and N-Face Free-Standing GaN Substrate. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 08JN26.	1.5	4
46	The polarization field dependence of Ti/Al based Ohmic contacts on N-type semipolar GaN. <i>Applied Physics Letters</i> , 2012, 100, 091104.	3.3	5
47	Reduction of leakage current in InGaN-based LEDs with V-pit embedded structures. <i>Journal of the Korean Physical Society</i> , 2012, 60, 1367-1370.	0.7	3
48	Improvement of Light Extraction Efficiency and Reduction of Leakage Current in GaN-Based LED Via V-Pit Formation. <i>IEEE Photonics Technology Letters</i> , 2012, 24, 449-451.	2.5	25
49	Heteroepitaxial growth of GaN on various powder compounds (AlN, LaN, TiN, NbN, ZrN, ZrB ₂ , VN, BeO) by hydride vapor phase epitaxy. <i>Electronic Materials Letters</i> , 2012, 8, 135-139.	2.2	5
50	Epitaxial growth of GaN films on Cr-compound buffer layers by plasma assisted molecular beam epitaxy. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 2013-2015.	0.8	2
51	Ultraviolet stimulated emission in periodically polarity-inverted ZnO structures at room temperature. <i>Applied Physics Letters</i> , 2010, 97, 171101.	3.3	1
52	Ordered Arrays of ZnO Nanorods Grown on Periodically Polarity-Inverted Surfaces. <i>Nano Letters</i> , 2008, 8, 2419-2422.	9.1	64