

Jung Kyu Kim

List of Publications by Citations

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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.

93 papers	3,148 citations	30 h-index	54 g-index
102 ext. papers	3,693 ext. citations	9.9 avg, IF	5.37 L-index

#	Paper	IF	Citations
93	Enhanced Power Conversion Efficiency in PCDTBT/PC70BM Bulk Heterojunction Photovoltaic Devices with Embedded Silver Nanoparticle Clusters. <i>Advanced Energy Materials</i> , 2011 , 1, 766-770	21.8	215
92	An order/disorder/water junction system for highly efficient co-catalyst-free photocatalytic hydrogen generation. <i>Energy and Environmental Science</i> , 2016 , 9, 499-503	35.4	201
91	Balancing light absorptivity and carrier conductivity of graphene quantum dots for high-efficiency bulk heterojunction solar cells. <i>ACS Nano</i> , 2013 , 7, 7207-12	16.7	152
90	Conflicted Effects of a Solvent Additive on PTB7:PC71BM Bulk Heterojunction Solar Cells. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 5954-5961	3.8	138
89	A roll-to-roll welding process for planarized silver nanowire electrodes. <i>Nanoscale</i> , 2014 , 6, 11828-34	7.7	132
88	Synthesis of transparent mesoporous tungsten trioxide films with enhanced photoelectrochemical response: application to unassisted solar water splitting. <i>Energy and Environmental Science</i> , 2011 , 4, 1465-70	35.4	132
87	Unassisted photoelectrochemical water splitting beyond 5.7% solar-to-hydrogen conversion efficiency by a wireless monolithic photoanode/dye-sensitized solar cell tandem device. <i>Nano Energy</i> , 2015 , 13, 182-191	17.1	114
86	Flexible and transparent metallic grid electrodes prepared by evaporative assembly. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 12380-7	9.5	111
85	Transferable graphene oxide by stamping nanotechnology: electron-transport layer for efficient bulk-heterojunction solar cells. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 2874-80	16.4	105
84	Photoelectrochemical cells with tungsten trioxide/Mo-doped BiVO ₄ bilayers. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 11119-24	3.6	100
83	Controlled synthesis of vertically aligned hematite on conducting substrate for photoelectrochemical cells: nanorods versus nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 1852-8	9.5	94
82	Double-Deck Inverse Opal Photoanodes: Efficient Light Absorption and Charge Separation in Heterojunction. <i>Chemistry of Materials</i> , 2014 , 26, 5592-5597	9.6	81
81	Enhancing Catalytic Activity of MoS ₂ Basal Plane S-Vacancy by Co Cluster Addition. <i>ACS Energy Letters</i> , 2018 , 3, 2685-2693	20.1	79
80	Defect-Induced Epitaxial Growth for Efficient Solar Hydrogen Production. <i>Nano Letters</i> , 2017 , 17, 6676-6683	6.8	77
79	Inverse opal structured Fe ₂ O ₃ on graphene thin films: enhanced photo-assisted water splitting. <i>Nanoscale</i> , 2013 , 5, 1939-44	7.7	66
78	Enhancing Mo:BiVO ₄ Solar Water Splitting with Patterned Au Nanospheres by Plasmon-Induced Energy Transfer. <i>Advanced Energy Materials</i> , 2018 , 8, 1701765	21.8	60
77	Oriented Grains with Preferred Low-Angle Grain Boundaries in Halide Perovskite Films by Pressure-Induced Crystallization. <i>Advanced Energy Materials</i> , 2018 , 8, 1702369	21.8	56

76	Resolving Hysteresis in Perovskite Solar Cells with Rapid Flame-Processed Cobalt-Doped TiO ₂ . <i>Advanced Energy Materials</i> , 2018 , 8, 1801717	21.8	54
75	Enhanced light harvesting in bulk heterojunction photovoltaic devices with shape-controlled Ag nanomaterials: Ag nanoparticles versus Ag nanoplates. <i>RSC Advances</i> , 2012 , 2, 7268	3.7	51
74	Delocalized Electron Accumulation at Nanorod Tips: Origin of Efficient H ₂ Generation. <i>Advanced Functional Materials</i> , 2016 , 26, 4527-4534	15.6	51
73	Surface-Engineered Graphene Quantum Dots Incorporated into Polymer Layers for High Performance Organic Photovoltaics. <i>Scientific Reports</i> , 2015 , 5, 14276	4.9	48
72	Nano carbon conformal coating strategy for enhanced photoelectrochemical responses and long-term stability of ZnO quantum dots. <i>Nano Energy</i> , 2015 , 13, 258-266	17.1	48
71	Origin of White Electroluminescence in Graphene Quantum Dots Embedded Host/Guest Polymer Light Emitting Diodes. <i>Scientific Reports</i> , 2015 , 5, 11032	4.9	46
70	Stability comparison: A PCDTBT/PC71BM bulk-heterojunction versus a P3HT/PC71BM bulk-heterojunction. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 101, 249-255	6.4	45
69	Double 2-dimensional H ₂ -evolving catalyst tipped photocatalyst nanowires: A new avenue for high-efficiency solar to H ₂ generation. <i>Nano Energy</i> , 2017 , 34, 481-490	17.1	38
68	Hematite modified tungsten trioxide nanoparticle photoanode for solar water oxidation. <i>Journal of Power Sources</i> , 2012 , 210, 32-37	8.9	38
67	Multiple Heterojunction in Single Titanium Dioxide Nanoparticles for Novel Metal-Free Photocatalysis. <i>Nano Letters</i> , 2018 , 18, 4257-4262	11.5	35
66	Clay Nanosheets in Skeletons of Controlled Phase Inversion Separators for Thermally Stable Li-Ion Batteries. <i>Advanced Functional Materials</i> , 2015 , 25, 3399-3404	15.6	33
65	Inverse opal tungsten trioxide films with mesoporous skeletons: synthesis and photoelectrochemical responses. <i>Chemical Communications</i> , 2012 , 48, 11939-41	5.8	33
64	Rapid Formation of a Disordered Layer on Monoclinic BiVO ₄ : Co-Catalyst-Free Photoelectrochemical Solar Water Splitting. <i>ChemSusChem</i> , 2018 , 11, 933-940	8.3	31
63	Core-Shell Structured MXene@Carbon Nanodots as Bifunctional Catalysts for Solar-Assisted Water Splitting. <i>ACS Nano</i> , 2020 ,	16.7	28
62	Hybrid Silver Mesh Electrode for ITO-Free Flexible Polymer Solar Cells with Good Mechanical Stability. <i>ChemSusChem</i> , 2016 , 9, 1042-9	8.3	28
61	A facile chemical synthesis of ZnO@multilayer graphene nanoparticles with fast charge separation and enhanced performance for application in solar energy conversion. <i>Nano Energy</i> , 2016 , 25, 9-17	17.1	28
60	Rational Design of Metal Oxide-Based Heterostructure for Efficient Photocatalytic and Photoelectrochemical Systems. <i>Advanced Functional Materials</i> , 2021 , 31, 2008247	15.6	24
59	Efficient Hole Extraction from Sb ₂ S ₃ Heterojunction Solar Cells by the Solid Transfer of Preformed PEDOT:PSS Film. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 22672-22677	3.8	23

58	Efficient solution-processed small-molecule solar cells by insertion of graphene quantum dots. <i>Nanoscale</i> , 2014 , 6, 15175-80	7.7	23
57	Retarded Charge Carrier Recombination in Photoelectrochemical Cells from Plasmon-Induced Resonance Energy Transfer. <i>Advanced Energy Materials</i> , 2020 , 10, 2000570	21.8	22
56	A 3D triple-deck photoanode with a strengthened structure integrality: enhanced photoelectrochemical water oxidation. <i>Nanoscale</i> , 2016 , 8, 3474-81	7.7	22
55	Enhanced performance and stability of polymer BHJ photovoltaic devices from dry transfer of PEDOT:PSS. <i>ChemSusChem</i> , 2014 , 7, 1957-63	8.3	22
54	Polymer bulk heterojunction solar cells with PEDOT:PSS bilayer structure as hole extraction layer. <i>ChemSusChem</i> , 2013 , 6, 1070-5	8.3	22
53	A polydopamine-mediated biomimetic facile synthesis of molybdenum carbide-phosphide nanodots encapsulated in carbon shell for electrochemical hydrogen evolution reaction with long-term durability. <i>Composites Part B: Engineering</i> , 2019 , 175, 107071	10	21
52	Analysis of surface morphological changes in organic photovoltaic devices: bilayer versus bulk-heterojunction. <i>Energy and Environmental Science</i> , 2011 , 4, 1434	35.4	21
51	Layer-by-layer all-transfer-based organic solar cells. <i>Langmuir</i> , 2013 , 29, 5377-82	4	20
50	Omnidirectional, Broadband Light Absorption in a Hierarchical Nanoturf Membrane for an Advanced Solar-Vapor Generator. <i>Advanced Functional Materials</i> , 2020 , 30, 2003862	15.6	18
49	Intrinsically Strain-Insensitive, Hyperelastic Temperature-Sensing Fiber with Compressed Micro-Wrinkles for Integrated Textronics. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000073	6.8	17
48	Carbon quantum dot-incorporated nickel oxide for planar p-i-n type perovskite solar cells with enhanced efficiency and stability. <i>Journal of Alloys and Compounds</i> , 2020 , 818, 152887	5.7	17
47	Improved Stability of Interfacial Energy-Level Alignment in Inverted Planar Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 18964-18973	9.5	17
46	Grain Boundary Healing of Organic-Inorganic Halide Perovskites for Moisture Stability. <i>Nano Letters</i> , 2019 , 19, 6498-6505	11.5	16
45	Epitaxial growth of WO ₃ nanoneedles achieved using a facile flame surface treatment process engineering of hole transport and water oxidation reactivity. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 19542-19546	13	16
44	Rational Design of Spinel Oxide Nanocomposites with Tailored Electrochemical Oxygen Evolution and Reduction Reactions for ZincAir Batteries. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3165	2.6	15
43	Ultrathin nanoclay films with tunable thickness as barrier layers in organic light emitting devices. <i>Journal of Materials Chemistry</i> , 2012 , 22, 7718		15
42	Fabrication of an ingenious metallic asymmetric supercapacitor by the integration of anodic iron oxide and cathodic nickel phosphide. <i>Applied Surface Science</i> , 2020 , 511, 145424	6.7	14
41	Tungsten oxide/PEDOT:PSS hybrid cascade hole extraction layer for polymer solar cells with enhanced long-term stability and power conversion efficiency. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 122, 24-30	6.4	14

40	Ultrafast Flame Annealing of TiO Paste for Fabricating Dye-Sensitized and Perovskite Solar Cells with Enhanced Efficiency. <i>Small</i> , 2017 , 13, 1702260	11	13
39	Acidity Suppression of Hole Transport Layer via Solution Reaction of Neutral PEDOT:PSS for Stable Perovskite Photovoltaics. <i>Polymers</i> , 2020 , 12,	4.5	12
38	An Electronically Perceptive Bioinspired Soft Wet-Adhesion Actuator with Carbon Nanotube-Based Strain Sensors. <i>ACS Nano</i> , 2021 , 15, 14137-14148	16.7	12
37	PEG-assisted Sol-gel Synthesis of Compact Nickel Oxide Hole-Selective Layer with Modified Interfacial Properties for Organic Solar Cells. <i>Polymers</i> , 2019 , 11,	4.5	11
36	Electrospun Carbon Nanofibers with Embedded Co-Ceria Nanoparticles for Efficient Hydrogen Evolution and Overall Water Splitting. <i>Materials</i> , 2020 , 13,	3.5	11
35	Tailoring dispersion and aggregation of Au nanoparticles in the BHJ layer of polymer solar cells: plasmon effects versus electrical effects. <i>ChemSusChem</i> , 2014 , 7, 3452-8	8.3	11
34	Printable wet-resistive textile strain sensors using bead-blended composite ink for robustly integrative wearable electronics. <i>Composites Part B: Engineering</i> , 2021 , 210, 108674	10	11
33	Lysozyme-mediated biomineralization of titanium-tungsten oxide hybrid nanoparticles with high photocatalytic activity. <i>Chemical Communications</i> , 2014 , 50, 12392-5	5.8	10
32	Surface roughened 1-D Au host nanorods for visible light induced photocatalyst. <i>Electrochimica Acta</i> , 2013 , 97, 404-408	6.7	10
31	Review Non-Noble Metal-Based Single-Atom Catalysts for Efficient Electrochemical CO ₂ Reduction Reaction. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 164503	3.9	8
30	Synergy effects of Al ₂ O ₃ promoter on a highly ordered mesoporous heterogeneous Rh-g-C ₃ N ₄ for a liquid-phase carbonylation of methanol. <i>Applied Catalysis A: General</i> , 2019 , 585, 117209	5.1	7
29	Revisiting surface chemistry in TiO ₂ : A critical role of ionic passivation for pH-independent and anti-corrosive photoelectrochemical water oxidation. <i>Chemical Engineering Journal</i> , 2021 , 407, 126929	14.7	7
28	Transferable Graphene Oxide by Stamping Nanotechnology: Electron-Transport Layer for Efficient Bulk-Heterojunction Solar Cells. <i>Angewandte Chemie</i> , 2013 , 125, 2946-2952	3.6	6
27	Electrochemically controlled CdS@CdSe nanoparticles on ITO@TiO ₂ dual core-shell nanowires for enhanced photoelectrochemical hydrogen production. <i>Applied Surface Science</i> , 2020 , 505, 144569	6.7	6
26	Ginkwanghols A and B, osteogenic coumaric acid-aliphatic alcohol hybrids from the leaves of Ginkgo biloba. <i>Archives of Pharmacal Research</i> , 2021 , 44, 514-524	6.1	6
25	Incorporation of a Metal Oxide Interlayer using a Virus-Templated Assembly for Synthesis of Graphene-Electrode-Based Organic Photovoltaics. <i>ChemSusChem</i> , 2015 , 8, 2385-91	8.3	5
24	Self-Assembled Colloidal Nanopatterns toward Unnatural Optical Meta-Materials. <i>Advanced Functional Materials</i> , 2021 , 31, 2008246	15.6	5
23	Hexagonal Array Patterned PMMA Buffer Layer for Efficient Hole Transport and Tailored Interfacial Properties of FTO-Based Organic Solar Cells. <i>Macromolecular Research</i> , 2018 , 26, 1173-1178	1.9	5

22	Solar-harvesting lead halide perovskite for artificial photosynthesis. <i>Journal of Energy Chemistry</i> , 2021 , 62, 11-26	12	5
21	Biopolymer-Inspired N-Doped Nanocarbon Using Carbonized Polydopamine: A High-Performance Electrocatalyst for Hydrogen-Evolution Reaction. <i>Polymers</i> , 2020 , 12,	4.5	4
20	Solar Cells: Oriented Grains with Preferred Low-Angle Grain Boundaries in Halide Perovskite Films by Pressure-Induced Crystallization (Adv. Energy Mater. 10/2018). <i>Advanced Energy Materials</i> , 2018 , 8, 1870045	21.8	4
19	Fabrication and Photocatalytic Effects of Tungsten Trioxide Nano-Pattern Arrays. <i>Materials Express</i> , 2011 , 1, 245-251	1.3	4
18	Identification of anti-adipogenic withanolides from the roots of Indian ginseng (<i>Withania somnifera</i>). <i>Journal of Ginseng Research</i> , 2021 ,	5.8	4
17	Enhancing Solar Water Splitting of Textured BiVO ₄ by Dual Effect of a Plasmonic Silver Nanoshell: Plasmon-Induced Light Absorption and Enhanced Hole Transport. <i>ACS Applied Energy Materials</i> , 2020 , 3, 11886-11892	6.1	4
16	Phytochemical Analysis of the Fruits of Sea Buckthorn (): Identification of Organic Acid Derivatives. <i>Plants</i> , 2021 , 10,	4.5	4
15	A highly activated iron phosphate over-layer for enhancing photoelectrochemical ammonia decomposition. <i>Journal of Hazardous Materials</i> , 2021 , 408, 124900	12.8	4
14	Boosting eco-friendly hydrogen generation by urea-assisted water electrolysis using spinel M ₂ GeO ₄ (M = Fe, Co) as an active electrocatalyst. <i>Environmental Science: Nano</i> ,	7.1	4
13	Efficient and low potential operative host/guest concentration graded bilayer polymer electrophosphorescence devices. <i>Journal of Luminescence</i> , 2012 , 132, 870-874	3.8	3
12	Metal-Organic Decomposition-Mediated Nanoparticulate Vanadium Oxide Hole Transporting Buffer Layer for Polymer Bulk-Heterojunction Solar Cells. <i>Polymers</i> , 2020 , 12,	4.5	3
11	Conformal Titanyl Phosphate Surface Passivation for Enhancing Photocatalytic Activity. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1402	2.6	3
10	Molecular manipulation of PEDOT:PSS for efficient hole transport by incorporation of N-doped carbon quantum dots. <i>Dyes and Pigments</i> , 2021 , 194, 109610	4.6	3
9	Rational nanopositioning of homogeneous amorphous phase on crystalline tungsten oxide for boosting solar water oxidation. <i>Chemical Engineering Journal</i> , 2022 , 438, 135532	14.7	3
8	Anchoring of Ni ₁₂ P ₅ Microbricks in Nitrogen- and Phosphorus-Enriched Carbon Frameworks: Engineering Bifunctional Active Sites for Efficient Water-Splitting Systems. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 1182-1194	8.3	2
7	Ultra-intimate hydrogel hybrid skin patch with asymmetric elastomeric spatula-like cylinders. <i>Chemical Engineering Journal</i> , 2022 , 444, 136581	14.7	2
6	Ulmusakidian, a new coumarin glycoside and antifungal phenolic compounds from the root bark of <i>Ulmus davidiana</i> var. <i>japonica</i> . <i>Bioorganic and Medicinal Chemistry Letters</i> , 2021 , 36, 127828	2.9	1
5	Thermally cross-linkable spirobifluorene-core-based hole transport layer with high solvent-resistivity for solution processible OLEDs. <i>Dyes and Pigments</i> , 2021 , 187, 109122	4.6	1

4	Anti-fibrotic effects of brevilin A in hepatic fibrosis via inhibiting the STAT3 signaling pathway. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2021 , 41, 127989	2.9	1
3	Harnessing designer biotemplates for biomineralization of TiO ₂ with tunable photocatalytic activity. <i>Ceramics International</i> , 2019 , 45, 6467-6476	5.1	1
2	Self-Assembled Colloidal Nanopatterns: Self-Assembled Colloidal Nanopatterns toward Unnatural Optical Meta-Materials (Adv. Funct. Mater. 12/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170080	15.6	
1	Ginkgonitroside, a new nitrophenyl glycoside and bioactive compounds from Ginkgo biloba leaves controlling adipocyte and osteoblast differentiation. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2021 , 50, 128322	2.9	