

Jung-Ho Yun

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.

91
papers

4,879
citations

33
h-index

69
g-index

95
ext. papers

5,853
ext. citations

9.3
avg, IF

5.94
L-index

#	Paper	IF	Citations
91	National trauma system establishment based on implementation of regional trauma centers improves outcomes of trauma care: A follow-up observational study in South Korea. <i>PLOS Global Public Health</i> , 2022 , 2, e0000162		1
90	Surface plasmon-driven photoelectrochemical water splitting of a Ag/TiO nanoplate photoanode.. <i>RSC Advances</i> , 2022 , 12, 2652-2661	3.7	0
89	Nanosphere lithography: a versatile approach to develop transparent conductive films for optoelectronic applications.. <i>Advanced Materials</i> , 2022 , e2103842	24	5
88	Non-noble Plasmon Enhancement (NNPE) for PV Energy Conversion 2022 , 581-609		
87	2D- Materials-based Heterostructures for PV Energy Conversion 2022 , 449-480		
86	Controllable Acceleration and Deceleration of Charge Carrier Transport in Metal-Halide Perovskite Single-Crystal by Cs-Cation Induced Bandgap Engineering.. <i>Small</i> , 2022 , e2107680	11	1
85	Lead-free metal-halide double perovskites: from optoelectronic properties to applications. <i>Nanophotonics</i> , 2021 , 10, 2181-2219	6.3	9
84	Efficient and Rapid Photocatalytic Degradation of Methyl Orange Dye Using Al/ZnO Nanoparticles. <i>Nanomaterials</i> , 2021 , 11,	5.4	6
83	Bifunctional photoelectrochemical process for humic acid degradation and hydrogen production using multi-layered p-type CuO photoelectrodes with plasmonic Au@TiO. <i>Journal of Hazardous Materials</i> , 2021 , 402, 123533	12.8	14
82	Bias effect on surface chemical states of CH ₃ NH ₃ PbBr ₃ hybrid perovskite single crystal: Decreasing CH ₃ NH ₂ molecular defect. <i>Applied Surface Science</i> , 2021 , 542, 148536	6.7	1
81	Inner Ear Symptoms Are Prevalent in Patients with High Head Abbreviated Injury Scale Scores after Blunt Head Trauma. <i>Audiology and Neuro-Otology</i> , 2021 , 1-8	2.2	
80	Coal beneficiation technology to reduce hazardous heavy metals in fly ash. <i>Journal of Hazardous Materials</i> , 2021 , 416, 125853	12.8	7
79	Periodic nanostructures: preparation, properties and applications. <i>Chemical Society Reviews</i> , 2021 , 50, 6423-6482	58.5	16
78	Self-Assembled Perovskite Nanoislands on CH ₃ NH ₃ PbI ₃ Cuboid Single Crystals by Energetic Surface Engineering (Adv. Funct. Mater. 50/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170371	15.6	1
77	Trilayer Nanomesh Films with Tunable Wettability as Highly Transparent, Flexible, and Recyclable Electrodes. <i>Advanced Functional Materials</i> , 2020 , 30, 2002556	15.6	15
76	Surface Degradation Mechanism on CH ₃ NH ₃ PbBr Hybrid Perovskite Single Crystal by a Grazing E-Beam Irradiation. <i>Nanomaterials</i> , 2020 , 10,	5.4	6
75	Ligand-assisted cation-exchange engineering for high-efficiency colloidal Cs _{1-x} FaxPbI ₃ quantum dot solar cells with reduced phase segregation. <i>Nature Energy</i> , 2020 , 5, 79-88	62.3	237

74	Strong Linear Correlation between CHNH Molecular Defect and THz-Wave Absorption in CHNHPbI Hybrid Perovskite Thin Film. <i>Nanomaterials</i> , 2020 , 10,	5.4	3
73	Light soaking effect driven in porphyrin dye-sensitized solar cells using 1D TiO ₂ nanotube photoanodes. <i>Sustainable Materials and Technologies</i> , 2020 , 24, e00165	5.3	4
72	Treatment Experiences of Traumatic Brain Injury Patients using Doctor-Helicopter Emergency Medical Service: Early Data in a Regional Trauma Center. <i>Korean Journal of Neurotrauma</i> , 2020 , 16, 157-165	0.7	0
71	Impacts of Social Distancing During the COVID-19 Outbreaks in Korea: Level 1 Trauma Center Data of Domestic Incidents and Intentional Injury. <i>Osong Public Health and Research Perspectives</i> , 2020 , 11, 345-350	6.1	4
70	Luminescent europium-doped titania for efficiency and UV-stability enhancement of planar perovskite solar cells. <i>Nano Energy</i> , 2020 , 69, 104392	17.1	31
69	Unique phonon modes of a CH ₃ NH ₃ PbBr ₃ hybrid perovskite film without the influence of defect structures: an attempt toward a novel THz-based application. <i>NPG Asia Materials</i> , 2020 , 12,	10.3	5
68	Halide Perovskite Single Crystals: Optoelectronic Applications and Strategical Approaches. <i>Energies</i> , 2020 , 13, 4250	3.1	10
67	Dual-Ion-Diffusion Induced Degradation in Lead-Free Cs ₂ AgBiBr ₆ Double Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2020 , 30, 2002342	15.6	39
66	Desirable TiO ₂ compact films for nanostructured hybrid solar cells. <i>Materials Technology</i> , 2020 , 35, 31-38.	3.1	3
65	Effect of early enteral nutrition on the incidence of acute acalculous cholecystitis among trauma patients. <i>Asia Pacific Journal of Clinical Nutrition</i> , 2020 , 29, 35-40	1	2
64	Probing Facet-Dependent Surface Defects in MAPbI ₃ Perovskite Single Crystals. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 14144-14151	3.8	43
63	Nanoarchitected metal-organic framework-derived hollow carbon nanofiber filters for advanced oxidation processes. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 13743-13750	13	74
62	Preventable Trauma Death Rate after Establishing a National Trauma System in Korea. <i>Journal of Korean Medical Science</i> , 2019 , 34, e65	4.7	17
61	Significant THz-wave absorption property in mixed δ - and ϵ -FAPbI ₃ hybrid perovskite flexible thin film formed by sequential vacuum evaporation. <i>Applied Physics Express</i> , 2019 , 12, 051003	2.4	9
60	Phenethylammonium bismuth halides: from single crystals to bulky-organic cation promoted thin-film deposition for potential optoelectronic applications. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 20733-20741	13	22
59	Synergistic tribological performance of a water based lubricant using graphene oxide and alumina hybrid nanoparticles as additives. <i>Tribology International</i> , 2019 , 135, 170-180	4.9	26
58	Tribological Characteristics of Aqueous Graphene Oxide, Graphitic Carbon Nitride, and Their Mixed Suspensions. <i>Tribology Letters</i> , 2018 , 66, 1	2.8	27
57	A dual-electrolyte system for photoelectrochemical hydrogen generation using CuInS ₂ -In ₂ O ₃ -TiO ₂ nanotube array thin film. <i>Science China Materials</i> , 2018 , 61, 895-904	7.1	10

56	Progress and Perspective in Low-Dimensional Metal Halide Perovskites for Optoelectronic Applications. <i>Solar Rrl</i> , 2018 , 2, 1700186	7.1	69
55	In Situ Growth of 2D Perovskite Capping Layer for Stable and Efficient Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1706923	15.6	361
54	Perovskite Solar Cells: In Situ Growth of 2D Perovskite Capping Layer for Stable and Efficient Perovskite Solar Cells (Adv. Funct. Mater. 17/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870113	15.6	5
53	New BiVO Dual Photoanodes with Enriched Oxygen Vacancies for Efficient Solar-Driven Water Splitting. <i>Advanced Materials</i> , 2018 , 30, e1800486	24	282
52	Inorganic p-Type Semiconductors as Hole Conductor Building Blocks for Robust Perovskite Solar Cells. <i>Advanced Sustainable Systems</i> , 2018 , 2, 1800032	5.9	15
51	Friction and wear characteristics of TiO ₂ nano-additive water-based lubricant on ferritic stainless steel. <i>Tribology International</i> , 2018 , 117, 24-38	4.9	90
50	Comprehensive Understanding and Controlling the Defect Structures: An Effective Approach for Organic-Inorganic Hybrid Perovskite-Based Solar-Cell Application. <i>Frontiers in Energy Research</i> , 2018 , 6,	3.8	19
49	New Iron-Cobalt Oxide Catalysts Promoting BiVO ₄ Films for Photoelectrochemical Water Splitting. <i>Advanced Functional Materials</i> , 2018 , 28, 1802685	15.6	150
48	A study of the tribological behaviour of TiO ₂ nano-additive water-based lubricants. <i>Tribology International</i> , 2017 , 109, 398-408	4.9	128
47	Tribological Performance and Lubrication Mechanism of Alumina Nanoparticle Water-Based Suspensions in Ball-on-Three-Plate Testing. <i>Tribology Letters</i> , 2017 , 65, 1	2.8	37
46	Analysis of TiO ₂ nano-additive water-based lubricants in hot rolling of microalloyed steel. <i>Journal of Manufacturing Processes</i> , 2017 , 27, 26-36	5	45
45	Configuration-centered photovoltaic applications of metal halide perovskites. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 902-909	13	16
44	An Electrochemically Treated BiVO ₄ Photoanode for Efficient Photoelectrochemical Water Splitting. <i>Angewandte Chemie</i> , 2017 , 129, 8620-8624	3.6	67
43	An Electrochemically Treated BiVO Photoanode for Efficient Photoelectrochemical Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 8500-8504	16.4	278
42	Biomimetic Silica Nanocapsules for Tunable Sustained Release and Cargo Protection. <i>Langmuir</i> , 2017 , 33, 5777-5785	4	19
41	Nanostructured Semiconductors for Bifunctional Photocatalytic and Photoelectrochemical Energy Conversion. <i>Semiconductors and Semimetals</i> , 2017 , 97, 315-347	0.6	3
40	Addressing Toxicity of Lead: Progress and Applications of Low-Toxic Metal Halide Perovskites and Their Derivatives. <i>Advanced Energy Materials</i> , 2017 , 7, 1602512	21.8	217
39	The Combined Use of Cardiac Output and Intracranial Pressure Monitoring to Maintain Optimal Cerebral Perfusion Pressure and Minimize Complications for Severe Traumatic Brain Injury. <i>Korean Journal of Neurotrauma</i> , 2017 , 13, 96-102	0.7	3

38	The pH-dependent structural and tribological behaviour of aqueous graphene oxide suspensions. <i>Tribology International</i> , 2017 , 116, 460-469	4.9	35
37	Recent Progress on Visible Light Responsive Heterojunctions for Photocatalytic Applications. <i>Journal of Materials Science and Technology</i> , 2017 , 33, 1-22	9.1	146
36	Quality Improvement in the Trauma Intensive Care Unit Using a Rounding Checklist: The Implementation Results. <i>Journal of Trauma and Injury</i> , 2017 , 30, 113-119	0.2	
35	Review of recent progress in unassisted photoelectrochemical water splitting: from material modification to configuration design. <i>Journal of Photonics for Energy</i> , 2016 , 7, 012006	1.2	57
34	Bifunctional resistive switching behavior in an organolead halide perovskite based Ag/CH ₃ NH ₃ PbI _{3-x} Cl _x /FTO structure. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 7824-7830	7.1	107
33	Organic/inorganic bismuth (III)-based material: A lead-free, air-stable and solution-processable light-absorber beyond organolead perovskites. <i>Nano Research</i> , 2016 , 9, 692-702	10	283
32	One-Dimensional TiO ₂ Nanostructured Photoanodes: From Dye-Sensitised Solar Cells to Perovskite Solar Cells. <i>Energies</i> , 2016 , 9, 1030	3.1	18
31	Morphology-Controlled High-Efficiency Small Molecule Organic Solar Cells without Additive Solvent Treatment. <i>Nanomaterials</i> , 2016 , 6,	5.4	6
30	Stable Hematite Nanosheet Photoanodes for Enhanced Photoelectrochemical Water Splitting. <i>Advanced Materials</i> , 2016 , 28, 6405-10	24	225
29	Recent advances in low-toxic lead-free metal halide perovskite materials for solar cell application. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2016 , 11, 392-398	1.3	22
28	Low-temperature processed solar cells with formamidinium tin halide perovskite/fullerene heterojunctions. <i>Nano Research</i> , 2016 , 9, 1570-1577	10	69
27	Synergistic crystal facet engineering and structural control of WO ₃ films exhibiting unprecedented photoelectrochemical performance. <i>Nano Energy</i> , 2016 , 24, 94-102	17.1	193
26	Tuning the carbon content on TiO ₂ nanosheets for optimized sodium storage. <i>Electrochimica Acta</i> , 2016 , 219, 163-169	6.7	9
25	Highly compact and uniform CH ₃ NH ₃ Sn _{0.5} Pb _{0.5} I ₃ films for efficient panchromatic planar perovskite solar cells. <i>Science Bulletin</i> , 2016 , 61, 1558-1562	10.6	23
24	Frequency-regulated pulsed electrodeposition of CuInS ₂ on ZnO nanorod arrays as visible light photoanodes. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 15876-15881	13	29
23	The influence of geometrical characteristics on the photocatalytic activity of TiO ₂ nanotube arrays for degradation of refractory organic pollutants in wastewater. <i>Water Science and Technology</i> , 2015 , 71, 1301-9	2.2	10
22	Bias-dependent effects in planar perovskite solar cells based on CH ₃ NH ₃ PbI _{3-x} Cl _x films. <i>Journal of Colloid and Interface Science</i> , 2015 , 453, 9-14	9.3	11
21	Facile preparation of smooth perovskite films for efficient meso/planar hybrid structured perovskite solar cells. <i>Chemical Communications</i> , 2015 , 51, 10038-41	5.8	46

20	Transition from the Tetragonal to Cubic Phase of Organohalide Perovskite: The Role of Chlorine in Crystal Formation of CH ₃ NH ₃ PbI ₃ on TiO ₂ Substrates. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 4379-84	6.4	79
19	Adenosine-induced transient asystole during intracranial aneurysm surgery: indications, dosing, efficacy, and risks. <i>Acta Neurochirurgica</i> , 2015 , 157, 1879-86; discussion 1886	3	31
18	A hybrid photoelectrode with plasmonic Au@TiO ₂ nanoparticles for enhanced photoelectrochemical water splitting. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 20127-20133	13	62
17	Stable and low-cost mesoscopic CH ₃ NH ₃ PbI ₂ Br perovskite solar cells by using a thin poly(3-hexylthiophene) layer as a hole transporter. <i>Chemistry - A European Journal</i> , 2015 , 21, 434-9	4.8	92
16	Memory Devices: Resistive Switching Behavior in Organic-Inorganic Hybrid CH ₃ NH ₃ PbI _{3-x} Cl _x Perovskite for Resistive Random Access Memory Devices (Adv. Mater. 40/2015). <i>Advanced Materials</i> , 2015 , 27, 6303-6303	24	3
15	Resistive Switching Behavior in Organic-Inorganic Hybrid CH ₃ NH ₃ PbI _{3-x} Cl _x Perovskite for Resistive Random Access Memory Devices. <i>Advanced Materials</i> , 2015 , 27, 6170-5	24	354
14	Complete surface coverage of ZnO nanorod arrays by pulsed electrodeposited CuInS ₂ for visible light energy conversion. <i>Dalton Transactions</i> , 2015 , 44, 7127-30	4.3	13
13	Insight into the liquid state of organo-lead halide perovskites and their new roles in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 10355	13	8
12	Composition-dependent photoluminescence intensity and prolonged recombination lifetime of perovskite CH ₃ NH ₃ PbBr(3-x)Cl(x) films. <i>Chemical Communications</i> , 2014 , 50, 11727-30	5.8	200
11	Fabrication of a CuInS ₂ photoelectrode using a single-step electrodeposition with controlled calcination atmosphere. <i>RSC Advances</i> , 2014 , 4, 3278-3283	3.7	15
10	Optical modeling-assisted characterization of dye-sensitized solar cells using TiO ₂ nanotube arrays as photoanodes. <i>Beilstein Journal of Nanotechnology</i> , 2014 , 5, 895-902	3	8
9	Reduced Graphene Oxide: Control of Water Miscibility, Conductivity, and Defects by Photocatalysis. <i>ChemCatChem</i> , 2013 , 5, 3060-3067	5.2	21
8	Thermal Degradation and Kinetics of Alginate Polyurethane Hybrid Material Prepared from Alginic Acid as a Polyol. <i>Journal of Polymers and the Environment</i> , 2013 , 21, 224-232	4.5	15
7	Combined electrophoretic deposition-anodization method to fabricate reduced graphene oxide/TiO ₂ nanotube films. <i>RSC Advances</i> , 2012 , 2, 8164	3.7	52
6	Wrapping the walls of n-TiO ₂ nanotubes with p-CuInS ₂ nanoparticles using pulsed-electrodeposition for improved heterojunction photoelectrodes. <i>Chemical Communications</i> , 2011 , 47, 11288-90	5.8	53
5	Sodium fluoride-assisted modulation of anodized TiO ₂ nanotube for dye-sensitized solar cells application. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 1585-93	9.5	39
4	Effect of calcium ion (cross-linker) concentration on porosity, surface morphology and thermal behavior of calcium alginates prepared from algae (<i>Undaria pinnatifida</i>). <i>Carbohydrate Polymers</i> , 2010 , 81, 633-639	10.3	44
3	Effect of Solvent Composition on Porosity, Surface Morphology and Thermal Behavior of Metal Alginate Prepared from Algae (<i>Undaria pinnatifida</i>). <i>Journal of Polymers and the Environment</i> , 2010 , 18, 45-56	4.5	8

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| 2 | Effect of cross-linker and cross-linker concentration on porosity, surface morphology and thermal behavior of metal alginates prepared from algae (<i>Undaria pinnatifida</i>). <i>Carbohydrate Polymers</i> , 2009 , 78, 717-724 | 10.3 | 33 |
| 1 | Self-Assembled Perovskite Nanoislands on CH ₃ NH ₃ PbI ₃ Cuboid Single Crystals by Energetic Surface Engineering. <i>Advanced Functional Materials</i> , 2105542 | 15.6 | 3 |