## Hui-Seon Kim

List of Publications by Year in descending order

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		117625	168389
57	16,733	34	53
papers	citations	h-index	g-index
59	59	59	14673
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Challenges for Thermally Stable Spiro-MeOTAD toward the Market Entry of Highly Efficient Perovskite Solar Cells. ACS Applied Materials & Solar Cells. ACS	8.0	17
2	Sustainable Green Process for Environmentally Viable Perovskite Solar Cells. ACS Energy Letters, 2022, 7, 1154-1177.	17.4	43
3	Decoupling the effects of defects on efficiency and stability through phosphonates in stable halide perovskite solar cells. Joule, 2021, 5, 1246-1266.	24.0	91
4	Progress of Perovskite Solar Modules. Advanced Energy and Sustainability Research, 2021, 2, 2000051.	5.8	19
5	Surface Reconstruction Engineering with Synergistic Effect of Mixedâ€Salt Passivation Treatment toward Efficient and Stable Perovskite Solar Cells. Advanced Functional Materials, 2021, 31, 2102902.	14.9	57
6	Dopant Engineering for Spiroâ€OMeTAD Holeâ€Transporting Materials towards Efficient Perovskite Solar Cells. Advanced Functional Materials, 2021, 31, 2102124.	14.9	67
7	Current-voltage analysis: lessons learned from hysteresis. , 2020, , 81-108.		9
8	Outstanding Passivation Effect by a Mixed-Salt Interlayer with Internal Interactions in Perovskite Solar Cells. ACS Energy Letters, 2020, 5, 3159-3167.	17.4	47
9	3D/2D Bilayerd Perovskite Solar Cells with an Enhanced Stability and Performance. Materials, 2020, 13, 3868.	2.9	25
10	Importance of tailoring lattice strain in halide perovskite crystals. NPG Asia Materials, 2020, 12, .	7.9	88
11	Reduced Graphene Oxide Improves Moisture and Thermal Stability of Perovskite Solar Cells. Cell Reports Physical Science, 2020, 1, 100053.	5.6	24
12	Revealing the Mechanism of Doping of <i>spiro</i> -MeOTAD via Zn Complexation in the Absence of Oxygen and Light. ACS Energy Letters, 2020, 5, 1271-1277.	17.4	29
13	Liquid State and Zombie Dye Sensitized Solar Cells with Copper Bipyridine Complexes Functionalized with Alkoxy Groups. Journal of Physical Chemistry C, 2020, 124, 7071-7081.	3.1	24
14	PbZrTiO <sub>3</sub> ferroelectric oxide as an electron extraction material for stable halide perovskite solar cells. Sustainable Energy and Fuels, 2019, 3, 382-389.	4.9	35
15	Design, synthesis and characterization of 1,8-naphthalimide based fullerene derivative as electron transport material for inverted perovskite solar cells. Synthetic Metals, 2019, 249, 25-30.	3.9	10
16	Morphological and compositional progress in halide perovskite solar cells. Chemical Communications, 2019, 55, 1192-1200.	4.1	136
17	Power output stabilizing feature in perovskite solar cells at operating condition: Selective contact-dependent charge recombination dynamics. Nano Energy, 2019, 61, 126-131.	16.0	35
18	Photoinduced Lattice Symmetry Enhancement in Mixed Hybrid Perovskites and Its Beneficial Effect on the Recombination Behavior. Advanced Optical Materials, 2019, 7, 1801512.	7.3	26

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19	Bifunctional Organic Spacers for Formamidinium-Based Hybrid Dion–Jacobson Two-Dimensional Perovskite Solar Cells. Nano Letters, 2019, 19, 150-157.	9.1	218
20	Boosting the Efficiency of Perovskite Solar Cells with CsBrâ€Modified Mesoporous TiO <sub>2</sub> Beads as Electronâ€Selective Contact. Advanced Functional Materials, 2018, 28, 1705763.	14.9	115
21	Novel p-dopant toward highly efficient and stable perovskite solar cells. Energy and Environmental Science, 2018, 11, 2985-2992.	30.8	216
22	Interfacial Engineering of Metal Oxides for Highly Stable Halide Perovskite Solar Cells. Advanced Materials Interfaces, 2018, 5, 1800367.	3.7	39
23	Effect of Selective Contacts on the Thermal Stability of Perovskite Solar Cells. ACS Applied Materials & Samp; Interfaces, 2017, 9, 7148-7153.	8.0	203
24	Acridine-based novel hole transporting material for high efficiency perovskite solar cells. Journal of Materials Chemistry A, 2017, 5, 7603-7611.	10.3	57
25	Wafer-scale reliable switching memory based on 2-dimensional layered organic–inorganic halide perovskite. Nanoscale, 2017, 9, 15278-15285.	5.6	113
26	Effect of Cs-Incorporated NiO <sub><i>x</i></sub> on the Performance of Perovskite Solar Cells. ACS Omega, 2017, 2, 9074-9079.	3.5	43
27	Empowering Semiâ€Transparent Solar Cells with Thermalâ€Mirror Functionality. Advanced Energy Materials, 2016, 6, 1502466.	19.5	68
28	Intrinsic Raman signatures of pristine hybrid perovskite CH <sub>3</sub> NH <sub>3</sub> Pbl <sub>3</sub> and its multiple stages of structure transformation. , 2016, , .		0
29	Multiple-Stage Structure Transformation of Organic-Inorganic Hybrid Perovskite <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mi>CH</mml:mi></mml:mrow><mml:mrow><mm .<="" 2016,="" 6,="" physical="" review="" td="" x,=""><td>າl:m̃ii&gt;3<td>nml:mn&gt;</td></td></mm></mml:mrow></mml:msub></mml:mrow></mml:math>	າl:m̃ii>3 <td>nml:mn&gt;</td>	nml:mn>
30	A Sharp Focus on Perovskite Solar Cells at Sungkyun International Solar Forum (SISF). ACS Energy Letters, 2016, 1, 500-502.	17.4	4
31	APbI3 (AÂ=ÂCH3NH3 and HC(NH2)2) Perovskite Solar Cells: From Sensitization to Planar Heterojunction. , 2016, , 223-253.		3
32	Material and Device Stability in Perovskite Solar Cells. ChemSusChem, 2016, 9, 2528-2540.	6.8	256
33	Impact of Selective Contacts on Long-Term Stability of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite Solar Cells. Journal of Physical Chemistry C, 2016, 120, 27840-27848.	3.1	47
34	Role of LiTFSI in high T <sub>g</sub> triphenylamine-based hole transporting material in perovskite solar cell. RSC Advances, 2016, 6, 68553-68559.	3.6	19
35	Lewis Acid–Base Adduct Approach for High Efficiency Perovskite Solar Cells. Accounts of Chemical Research, 2016, 49, 311-319.	15.6	878
36	Mesoscopic perovskite solar cells with an admixture of nanocrystalline TiO <sub>2</sub> and Al <sub>2</sub> O <sub>3</sub> : role of interconnectivity of TiO <sub>2</sub> in charge collection. Nanoscale, 2016, 8, 6341-6351.	5.6	26

#	Article	IF	Citations
37	Formamidinium and Cesium Hybridization for Photo―and Moistureâ€Stable Perovskite Solar Cell. Advanced Energy Materials, 2015, 5, 1501310.	19.5	1,350
38	Real-Space Imaging of the Atomic Structure of Organic–Inorganic Perovskite. Journal of the American Chemical Society, 2015, 137, 16049-16054.	13.7	155
39	Effects of domain size in polycrystalline perovskite organic-inorganic hybrids investigated by spatially resolved optical spectroscopy., 2015,,.		0
40	High efficiency solar cells combining a perovskite and a silicon heterojunction solar cells via an optical splitting system. Applied Physics Letters, 2015, 106, .	3.3	119
41	Effects of Seed Layer on Growth of ZnO Nanorod and Performance of Perovskite Solar Cell. Journal of Physical Chemistry C, 2015, 119, 10321-10328.	3.1	151
42	Ferroelectric Polarization in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite. Journal of Physical Chemistry Letters, 2015, 6, 1729-1735.	4.6	180
43	Control of <i>I</i> i>a€" <i>V</i> Hysteresis in CH <sub>3</sub> NH <sub>3</sub> Pbl <sub>3</sub> Perovskite Solar Cell. Journal of Physical Chemistry Letters, 2015, 6, 4633-4639.	4.6	430
44	Evaluation of Limiting Factors Affecting Photovoltaic Performance of Lowâ€Temperatureâ€Processed TiO <sub>2</sub> Films in Dyeâ€Sensitized Solar Cells. ChemPhysChem, 2014, 15, 1098-1105.	2.1	7
45	11% Efficient Perovskite Solar Cell Based on ZnO Nanorods: An Effective Charge Collection System. Journal of Physical Chemistry C, 2014, 118, 16567-16573.	3.1	611
46	Organolead Halide Perovskite: New Horizons in Solar Cell Research. Journal of Physical Chemistry C, 2014, 118, 5615-5625.	3.1	616
47	Parameters Affecting <i>I</i> à€" <i>V</i> Hysteresis of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite Solar Cells: Effects of Perovskite Crystal Size and Mesoporous TiO <sub>2</sub> Layer. Journal of Physical Chemistry Letters, 2014, 5, 2927-2934.	4.6	974
48	Morphology-photovoltaic property correlation in perovskite solar cells: One-step versus two-step deposition of CH3NH3Pbl3. APL Materials, 2014, 2, .	5.1	399
49	Correction to "Parameters Affecting <i>I</i> à6ectivaleraleraleraleraleraleraleraleraleraler	4.6	17
50	Mechanism of carrier accumulation in perovskite thin-absorber solar cells. Nature Communications, 2013, 4, 2242.	12.8	760
51	High Efficiency Solid-State Sensitized Solar Cell-Based on Submicrometer Rutile TiO <sub>2</sub> Nanorod and CH <sub>3</sub> NH <sub>3</sub> Pbl <sub>3</sub> Perovskite Sensitizer. Nano Letters, 2013, 13, 2412-2417.	9.1	908
52	Lead Iodide Perovskite Sensitized All-Solid-State Submicron Thin Film Mesoscopic Solar Cell with Efficiency Exceeding 9%. Scientific Reports, 2012, 2, 591.	3.3	6,763
53	Effect of Overlayer Thickness of Hole Transport Material on Photovoltaic Performance in Solid-Sate Dye-Sensitized Solar Cell. Bulletin of the Korean Chemical Society, 2012, 33, 670-674.	1.9	13
54	Improvement of mass transport of the [Co(bpy)3]II/III redox couple by controlling nanostructure of TiO2 films in dye-sensitized solar cells. Chemical Communications, 2011, 47, 12637.	4.1	71

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55	Pseudo First-Order Adsorption Kinetics of N719 Dye on TiO <sub>2</sub> Surface. ACS Applied Materials & Lamp; Interfaces, 2011, 3, 1953-1957.	8.0	101
56	Dependence of porosity, charge recombination kinetics and photovoltaic performance on annealing condition of TiO2 films. Frontiers of Optoelectronics in China, 2011, 4, 59-64.	0.2	5
57	2D White-Light Spectroscopy: Application to Lead-Halide Perovskites with Mixed Cations. ACS Symposium Series, 0, , 135-151.	0.5	1