

Jaehan Jung

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.

56
papers

1,730
citations

19
h-index

41
g-index

60
ext. papers

1,909
ext. citations

7.6
avg, IF

4.92
L-index

#	Paper	IF	Citations
56	Low-cost copper zinc tin sulfide counter electrodes for high-efficiency dye-sensitized solar cells. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 11739-42	16.4	391
55	1D nanocrystals with precisely controlled dimensions, compositions, and architectures. <i>Science</i> , 2016 , 353, 1268-72	33.3	259
54	Graphene-based transparent flexible electrodes for polymer solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 24254		90
53	Light-enabled reversible self-assembly and tunable optical properties of stable hairy nanoparticles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E1391-E1400	11.5	89
52	Improved stability of nano-Sn electrode with high-quality nano-SEI formation for lithium ion battery. <i>Nano Energy</i> , 2015 , 12, 314-321	17.1	85
51	Hairy Uniform Permanently Ligated Hollow Nanoparticles with Precise Dimension Control and Tunable Optical Properties. <i>Journal of the American Chemical Society</i> , 2017 , 139, 12956-12967	16.4	83
50	Enabling Tailorable Optical Properties and Markedly Enhanced Stability of Perovskite Quantum Dots by Permanently Ligating with Polymer Hairs. <i>Advanced Materials</i> , 2019 , 31, e1901602	24	81
49	A general route to nanocrystal kebabs periodically assembled on stretched flexible polymer shish. <i>Science Advances</i> , 2015 , 1, e1500025	14.3	59
48	Precisely Size-Tunable Monodisperse Hairy Plasmonic Nanoparticles via Amphiphilic Star-Like Block Copolymers. <i>Small</i> , 2016 , 12, 6714-6723	11	55
47	Core/Alloyed-Shell Quantum Dot Robust Solid Films with High Optical Gains. <i>ACS Photonics</i> , 2016 , 3, 647-658	6.3	41
46	Semiconducting conjugated polymer-inorganic tetrapod nanocomposites. <i>Langmuir</i> , 2013 , 29, 8086-92	4	37
45	Crafting Core/Graded Shell-Shell Quantum Dots with Suppressed Re-absorption and Tunable Stokes Shift as High Optical Gain Materials. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 5071-5	16.4	36
44	Research Progress on Conducting Polymer-Based Biomedical Applications. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 1070	2.6	30
43	Ab Initio Simulation of Charge Transfer at the Semiconductor Quantum Dot/TiO ₂ Interface in Quantum Dot-Sensitized Solar Cells. <i>Particle and Particle Systems Characterization</i> , 2015 , 32, 80-90	3.1	30
42	Organic-inorganic nanocomposites composed of conjugated polymers and semiconductor nanocrystals for photovoltaics. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014 , 52, 1641-1660	2.6	28
41	Low-Cost Copper Zinc Tin Sulfide Counter Electrodes for High-Efficiency Dye-Sensitized Solar Cells. <i>Angewandte Chemie</i> , 2011 , 123, 11943-11946	3.6	25
40	Robust, Uniform, and Highly Emissive Quantum Dot-Polymer Films and Patterns Using Thiol-Ene Chemistry. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 17435-17448	9.5	24

39	Large-Area Multicolor Emissive Patterns of Quantum Dot Polymer Films via Targeted Recovery of Emission Signature. <i>Advanced Optical Materials</i> , 2016 , 4, 608-619	8.1	24
38	Controlled Self-Assembly of Conjugated Polymers via a Solvent Vapor Pre-Treatment for Use in Organic Field-Effect Transistors. <i>Polymers</i> , 2019 , 11,	4.5	20
37	Enhancement of optical gain characteristics of quantum dot films by optimization of organic ligands. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 10069-10081	7.1	18
36	Large-Scale Robust Quantum Dot Microdisk Lasers with Controlled High Quality Cavity Modes. <i>Advanced Optical Materials</i> , 2017 , 5, 1700011	8.1	17
35	Robust lasing modes in coupled colloidal quantum dot microdisk pairs using a non-Hermitian exceptional point. <i>Nature Communications</i> , 2019 , 10, 561	17.4	17
34	Solvent Additive-Assisted Anisotropic Assembly and Enhanced Charge Transport of Conjugated Polymer Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 18131-18140	9.5	17
33	In Battery Electrochemical Polymerization to Form a Protective Conducting Layer on Se/C Cathodes for High-Performance LiBe Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 2000028	15.6	14
32	Semiconducting organic-inorganic nanocomposites by intimately tethering conjugated polymers to inorganic tetrapods. <i>Nanoscale</i> , 2016 , 8, 8887-98	7.7	14
31	Interface Engineering Strategies for Fabricating Nanocrystal-Based Organic-Inorganic Nanocomposites. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1376	2.6	13
30	An Unconventional Route to Monodisperse and Intimately Contacted Semiconducting Organic-Inorganic Nanocomposites. <i>Angewandte Chemie</i> , 2015 , 127, 4719-4723	3.6	12
29	High-Resolution Quantum Dot Photopatterning via Interference Lithography Assisted Microstamping. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 13370-13380	3.8	11
28	Spatially Ordered Poly(3-hexylthiophene) Fibril Nanostructures via Controlled Evaporative Self-Assembly. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800554	6.8	10
27	Self-assembly of a conjugated triblock copolymer at the air-water interface. <i>Soft Matter</i> , 2013 , 9, 8050	3.6	10
26	Continuous crafting of uniform colloidal nanocrystals using an inert-gas-driven microflow reactor. <i>Nanoscale</i> , 2015 , 7, 9731-7	7.7	9
25	Large-Scale Alignment of Polymer Semiconductor Nanowires for Efficient Charge Transport via Controlled Evaporation of Confined Fluids. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 1135-1142	9.5	9
24	Decay-to-Recovery Behavior and on-off Recovery of Photoluminescence Intensity from Core/Shell Quantum Dots. <i>ACS Photonics</i> , 2017 , 4, 1691-1704	6.3	8
23	Programmed Emission Transformations: Negative-to-Positive Patterning Using the Decay-to-Recovery Behavior of Quantum Dots. <i>Advanced Optical Materials</i> , 2017 , 5, 1600509	8.1	8
22	Hybrid Polymer/Metal Oxide Thin Films for High Performance, Flexible Transistors. <i>Micromachines</i> , 2020 , 11,	3.3	6

21	Intimate organic-inorganic nanocomposites via rationally designed conjugated polymer-grafted precursors. <i>Nanoscale</i> , 2016 , 8, 16520-7	7.7	6
20	Crafting Core/Graded Shell/Shell Quantum Dots with Suppressed Re-absorption and Tunable Stokes Shift as High Optical Gain Materials. <i>Angewandte Chemie</i> , 2016 , 128, 5155-5159	3.6	6
19	Control of Whispering Gallery Modes and PT-Symmetry Breaking in Colloidal Quantum Dot Microdisk Lasers with Engineered Notches. <i>Nano Letters</i> , 2019 , 19, 6049-6057	11.5	6
18	Characterization of Copper/Graphite Composites Fabricated via Electrochemical Deposition and Spark Plasma Sintering. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2853	2.6	6
17	Dewetting-Induced Photoluminescent Enhancement of Poly(lauryl methacrylate)/Quantum Dot Thin Films. <i>Langmuir</i> , 2017 , 33, 14325-14331	4	5
16	Cover Picture: Low-Cost Copper Zinc Tin Sulfide Counter Electrodes for High-Efficiency Dye-Sensitized Solar Cells (Angew. Chem. Int. Ed. 49/2011). <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 11541-11541	16.4	5
15	Spontaneous capillary breakup of suspended gradient polymer stripes into spatially ordered dot arrays. <i>Applied Surface Science</i> , 2019 , 475, 1003-1009	6.7	4
14	Lignin-Based Materials for Sustainable Rechargeable Batteries.. <i>Polymers</i> , 2022 , 14,	4.5	3
13	Preparation of anisotropic CdSe-P3HT core-shell nanorods using directly synthesized Br-functionalized CdSe nanorods. <i>Surface and Coatings Technology</i> , 2019 , 362, 84-89	4.4	2
12	Spectral and directional properties of elliptical quantum-dot microlasers. <i>Journal of Photonics for Energy</i> , 2018 , 8, 1	1.2	2
11	Synthesis of Organic/Inorganic Hybrid Nanocomposites via a Simple Two-Phase Ligands Exchange. <i>Science of Advanced Materials</i> , 2020 , 12, 326-332	2.3	2
10	Controlled self-assembly of polymer semiconductors in solution using a solvent-vapor approach. <i>Modern Physics Letters B</i> , 2019 , 33, 1940038	1.6	1
9	Titelbild: Low-Cost Copper Zinc Tin Sulfide Counter Electrodes for High-Efficiency Dye-Sensitized Solar Cells (Angew. Chem. 49/2011). <i>Angewandte Chemie</i> , 2011 , 123, 11745-11745	3.6	1
8	Continuous manufacturing of 3D patterned hybrid film via a roll-to-roll process with UV curing. <i>Modern Physics Letters B</i> , 2020 , 34, 2040039	1.6	1
7	Effect of a pre-deposited Ni layer on the hydrogen evolution performance of an electroplated Ni/CFP composite catalyst in acidic media. <i>Functional Composites and Structures</i> , 2021 , 3, 035001	3.5	0
6	Stokes-shift engineered CdSe/CdS/Cd _{1-x} Zn _x Se _{1-y} S _y nanoplatelets with tunable emission wavelength. <i>Thin Solid Films</i> , 2022 , 750, 139203	2.2	0
5	In Battery Polyaniline Coating: In Battery Electrochemical Polymerization to Form a Protective Conducting Layer on Se/C Cathodes for High-Performance Li/Se Batteries (Adv. Funct. Mater. 19/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070124	15.6	
4	Innenrücktitelbild: An Unconventional Route to Monodisperse and Intimately Contacted Semiconducting Organic/Inorganic Nanocomposites (Angew. Chem. 15/2015). <i>Angewandte Chemie</i> , 2015 , 127, 4761-4761	3.6	

- 3 One-pot synthesis of P3HT@CdE (E=S, Se, Te) nanocomposites using conjugated polymer-grafted precursors. *Functional Composites and Structures*, **2020**, 2, 04LT01 3.5
- 2 Preparation of organic-inorganic nanocomposites using directly synthesized Br-functionalized nanocrystals. *Applied Surface Science*, **2019**, 475, 695-699 6.7
- 1 Facile synthesis of Cd_{1-x}Zn_xSe_{1-y}S_y/CdSe/Cd_{1-x}Zn_xSe_{1-y}S_y nanoplatelets with precisely controlled emission wavelength. *Thin Solid Films*, **2022**, 751, 139218 2.2