Jaehan Jung

List of Publications by Year in Descending Order

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	Lignin-Based Materials for Sustainable Rechargeable Batteries.. *Polymers*, **2022**, 14,	4.5	3
55	Stokes-shift engineered CdSe/CdS/Cd1-xZnxSe1-ySy nanoplatelets with tunable emission wavelength. *Thin Solid Films*, **2022**, 750, 139203	2.2	0
54	Facile synthesis of Cd1-xZnxSe1-ySy/CdSe/Cd1-xZnxSe1-ySy nanoplatelets with precisely controlled emission wavelength. *Thin Solid Films*, **2022**, 751, 139218	2.2	
53	Effect of a pre-deposited Ni layer on the hydrogen evolution performance of an electroplated NiP/CFP composite catalyst in acidic media. *Functional Composites and Structures*, **2021**, 3, 035001	3.5	0
52	In Batteria Polyaniline Coating: In Batteria Electrochemical Polymerization to Form a Protective Conducting Layer on Se/C Cathodes for High-Performance LiSe Batteries (Adv. Funct. Mater. 19/2020). *Advanced Functional Materials*, **2020**, 30, 2070124	15.6	
51	Hybrid Polymer/Metal Oxide Thin Films for High Performance, Flexible Transistors. *Micromachines*, **2020**, 11,	3.3	6
50	In Batteria Electrochemical Polymerization to Form a Protective Conducting Layer on Se/C Cathodes for High-Performance LiSe Batteries. *Advanced Functional Materials*, **2020**, 30, 2000028	15.6	14
49	Synthesis of OrganicInorganic Hybrid Nanocomposites via a Simple Two-Phase Ligands Exchange. *Science of Advanced Materials*, **2020**, 12, 326-332	2.3	2
48	One-pot synthesis of P3HTCdE (E=S, Se, Te) nanocomposites using conjugated polymer-grafted precursors. *Functional Composites and Structures*, **2020**, 2, 04LT01	3.5	
47	Continuous manufacturing of 3D patterned hybrid film via a roll-to-roll process with UV curing. *Modern Physics Letters B*, **2020**, 34, 2040039	1.6	1
46	Spontaneous capillary breakup of suspended gradient polymer stripes into spatially ordered dot arrays. *Applied Surface Science*, **2019**, 475, 1003-1009	6.7	4
45	Spatially Ordered Poly(3-hexylthiophene) Fibril Nanostructures via Controlled Evaporative Self-Assembly. *Advanced Materials Technologies*, **2019**, 4, 1800554	6.8	10
44	Enabling Tailorable Optical Properties and Markedly Enhanced Stability of Perovskite Quantum Dots by Permanently Ligating with Polymer Hairs. *Advanced Materials*, **2019**, 31, e1901602	24	81
43	Research Progress on Conducting Polymer-Based Biomedical Applications. *Applied Sciences (Switzerland)*, **2019**, 9, 1070	2.6	30
42	Controlled Self-Assembly of Conjugated Polymers via a Solvent Vapor Pre-Treatment for Use in Organic Field-Effect Transistors. *Polymers*, **2019**, 11,	4.5	20
41	Preparation of anisotropic CdSe-P3HT core-shell nanorods using directly synthesized Br-functionalized CdSe nanorods. *Surface and Coatings Technology*, **2019**, 362, 84-89	4.4	2
40	Robust lasing modes in coupled colloidal quantum dot microdisk pairs using a non-Hermitian exceptional point. *Nature Communications*, **2019**, 10, 561	17.4	17

39	Control of Whispering Gallery Modes and PT-Symmetry Breaking in Colloidal Quantum Dot Microdisk Lasers with Engineered Notches. *Nano Letters*, **2019**, 19, 6049-6057	11.5	6
38	Controlled self-assembly of polymer semiconductors in solution using a solvent-vapor approach. *Modern Physics Letters B*, **2019**, 33, 1940038	1.6	1
37	Characterization of Copper□Graphite Composites Fabricated via Electrochemical Deposition and Spark Plasma Sintering. *Applied Sciences (Switzerland)*, **2019**, 9, 2853	2.6	6
36	Preparation of organic-inorganic nanocomposites using directly synthesized Br-functionalized nanocrystals. *Applied Surface Science*, **2019**, 475, 695-699	6.7	
35	Large-Scale Alignment of Polymer Semiconductor Nanowires for Efficient Charge Transport via Controlled Evaporation of Confined Fluids. *ACS Applied Materials & Interfaces*, **2019**, 11, 1135-1142	9.5	9
34	Light-enabled reversible self-assembly and tunable optical properties of stable hairy nanoparticles. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E1391-E1400	11.5	89
33	Solvent Additive-Assisted Anisotropic Assembly and Enhanced Charge Transport of □Conjugated Polymer Thin Films. *ACS Applied Materials & Interfaces*, **2018**, 10, 18131-18140	9.5	17
32	Spectral and directional properties of elliptical quantum-dot microlasers. *Journal of Photonics for Energy*, **2018**, 8, 1	1.2	2
31	Interface Engineering Strategies for Fabricating Nanocrystal-Based Organic□norganic Nanocomposites. *Applied Sciences (Switzerland)*, **2018**, 8, 1376	2.6	13
30	Robust, Uniform, and Highly Emissive Quantum Dot-Polymer Films and Patterns Using Thiol-Ene Chemistry. *ACS Applied Materials & Interfaces*, **2017**, 9, 17435-17448	9.5	24
29	Decay-to-Recovery Behavior and on□off Recovery of Photoluminescence Intensity from Core/Shell Quantum Dots. *ACS Photonics*, **2017**, 4, 1691-1704	6.3	8
28	Large-Scale Robust Quantum Dot Microdisk Lasers with Controlled High Quality Cavity Modes. *Advanced Optical Materials*, **2017**, 5, 1700011	8.1	17
27	High-Resolution Quantum Dot Photopatterning via Interference Lithography Assisted Microstamping. *Journal of Physical Chemistry C*, **2017**, 121, 13370-13380	3.8	11
26	Hairy Uniform Permanently Ligated Hollow Nanoparticles with Precise Dimension Control and Tunable Optical Properties. *Journal of the American Chemical Society*, **2017**, 139, 12956-12967	16.4	83
25	Dewetting-Induced Photoluminescent Enhancement of Poly(lauryl methacrylate)/Quantum Dot Thin Films. *Langmuir*, **2017**, 33, 14325-14331	4	5
24	Programmed Emission Transformations: Negative-to-Positive Patterning Using the Decay-to-Recovery Behavior of Quantum Dots. *Advanced Optical Materials*, **2017**, 5, 1600509	8.1	8
23	Intimate organic-inorganic nanocomposites via rationally designed conjugated polymer-grafted precursors. *Nanoscale*, **2016**, 8, 16520-7	7.7	6
22	1D nanocrystals with precisely controlled dimensions, compositions, and architectures. *Science*, **2016**, 353, 1268-72	33.3	259

21	Precisely Size-Tunable Monodisperse Hairy Plasmonic Nanoparticles via Amphiphilic Star-Like Block Copolymers. *Small*, **2016**, 12, 6714-6723	11	55
20	Crafting Core/Graded Shell□Shell Quantum Dots with Suppressed Re-absorption and Tunable Stokes Shift as High Optical Gain Materials. *Angewandte Chemie*, **2016**, 128, 5155-5159	3.6	6
19	Core/Alloyed-Shell Quantum Dot Robust Solid Films with High Optical Gains. *ACS Photonics*, **2016**, 3, 647-658	6.3	41
18	Crafting Core/Graded Shell-Shell Quantum Dots with Suppressed Re-absorption and Tunable Stokes Shift as High Optical Gain Materials. *Angewandte Chemie - International Edition*, **2016**, 55, 5071-5	16.4	36
17	Large-Area Multicolor Emissive Patterns of Quantum Dot□Polymer Films via Targeted Recovery of Emission Signature. *Advanced Optical Materials*, **2016**, 4, 608-619	8.1	24
16	Semiconducting organic-inorganic nanocomposites by intimately tethering conjugated polymers to inorganic tetrapods. *Nanoscale*, **2016**, 8, 8887-98	7.7	14
15	Enhancement of optical gain characteristics of quantum dot films by optimization of organic ligands. *Journal of Materials Chemistry C*, **2016**, 4, 10069-10081	7.1	18
14	Continuous crafting of uniform colloidal nanocrystals using an inert-gas-driven microflow reactor. *Nanoscale*, **2015**, 7, 9731-7	7.7	9
13	An Unconventional Route to Monodisperse and Intimately Contacted Semiconducting Organic□norganic Nanocomposites. *Angewandte Chemie*, **2015**, 127, 4719-4723	3.6	12
12	A general route to nanocrystal kebabs periodically assembled on stretched flexible polymer shish. *Science Advances*, **2015**, 1, e1500025	14.3	59
11	Ab Initio Simulation of Charge Transfer at the Semiconductor Quantum Dot/TiO2 Interface in Quantum Dot-Sensitized Solar Cells. *Particle and Particle Systems Characterization*, **2015**, 32, 80-90	3.1	30
10	Innenr□cktitelbild: An Unconventional Route to Monodisperse and Intimately Contacted Semiconducting Organic□norganic Nanocomposites (Angew. Chem. 15/2015). *Angewandte Chemie*, **2015**, 127, 4761-4761	3.6	
9	Improved stability of nano-Sn electrode with high-quality nano-SEI formation for lithium ion battery. *Nano Energy*, **2015**, 12, 314-321	17.1	85
8	Organic-inorganic nanocomposites composed of conjugated polymers and semiconductor nanocrystals for photovoltaics. *Journal of Polymer Science, Part B: Polymer Physics*, **2014**, 52, 1641-1660	2.6	28
7	Self-assembly of a conjugated triblock copolymer at the air□water interface. *Soft Matter*, **2013**, 9, 8050	3.6	10
6	Semiconducting conjugated polymer-inorganic tetrapod nanocomposites. *Langmuir*, **2013**, 29, 8086-92	4	37
5	Graphene-based transparent flexible electrodes for polymer solar cells. *Journal of Materials Chemistry*, **2012**, 22, 24254		90
4	Low-Cost Copper Zinc Tin Sulfide Counter Electrodes for High-Efficiency Dye-Sensitized Solar Cells. *Angewandte Chemie*, **2011**, 123, 11943-11946	3.6	25

3	Titelbild: Low-Cost Copper Zinc Tin Sulfide Counter Electrodes for High-Efficiency Dye-Sensitized Solar Cells (Angew. Chem. 49/2011). *Angewandte Chemie*, **2011**, 123, 11745-11745	3.6	1
2	Low-cost copper zinc tin sulfide counter electrodes for high-efficiency dye-sensitized solar cells. *Angewandte Chemie - International Edition*, **2011**, 50, 11739-42	16.4	391
1	Cover Picture: Low-Cost Copper Zinc Tin Sulfide Counter Electrodes for High-Efficiency Dye-Sensitized Solar Cells (Angew. Chem. Int. Ed. 49/2011). *Angewandte Chemie - International Edition*, **2011**, 50, 11541-11541	16.4	5