

Seung-Yong Lee

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/5715112/seung-yong-lee-publications-by-year.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

70
papers

1,781
citations

22
h-index

40
g-index

72
ext. papers

2,119
ext. citations

8.3
avg, IF

4.79
L-index

#	Paper	IF	Citations
70	Highly Efficient Pure-Blue Perovskite Light-Emitting Diode Leveraging CsPbBr ₃ x Cl ₃ / Cs ₄ PbBr ₃ x Cl ₆ Nanocomposite Emissive Layer with Shallow V. <i>Advanced Optical Materials</i> , 2022 , 10, 2270024	8.1	
69	Performance of a silica-polyethyleneimine adsorbent for post-combustion CO ₂ capture on a 100kg scale in a fluidized bed continuous unit. <i>Chemical Engineering Journal</i> , 2021 , 407, 127209	14.7	3
68	Solid-solution alloying of immiscible Pt and Au boosts catalytic performance for H ₂ O ₂ direct synthesis. <i>Acta Materialia</i> , 2021 , 205, 116563	8.4	8
67	High-throughput computational-experimental screening protocol for the discovery of bimetallic catalysts. <i>Npj Computational Materials</i> , 2021 , 7,	10.9	4
66	A supramolecular host-guest interaction-mediated injectable hydrogel system with enhanced stability and sustained protein release. <i>Acta Biomaterialia</i> , 2021 , 131, 286-301	10.8	7
65	Facile Direct Seed-Mediated Growth of AuPt Bimetallic Shell on the Surface of Pd Nanocubes and Application for Direct H ₂ O ₂ Synthesis. <i>Catalysts</i> , 2020 , 10, 650	4	6
64	Performance Differences of Hexavalent Chromium Adsorbents Caused by Graphene Oxide Drying Process. <i>Scientific Reports</i> , 2020 , 10, 4882	4.9	2
63	Most suitable amino silane molecules for surface functionalization of graphene oxide toward hexavalent chromium adsorption. <i>Chemosphere</i> , 2020 , 251, 126387	8.4	15
62	Luminescent silica films prepared using perhydropolysilazane and Mn-doped ZnS nanophosphors. <i>Applied Surface Science</i> , 2020 , 511, 145441	6.7	8
61	Rationally designed CuSb _{1-x} Bi _x S ₂ as a promising photovoltaic material: Theoretical and experimental study. <i>Scripta Materialia</i> , 2020 , 179, 107-112	5.6	0
60	Hollow/porous-walled SnO ₂ via nanoscale Kirkendall diffusion with irregular particles. <i>Acta Materialia</i> , 2020 , 186, 20-28	8.4	2
59	Centrifugal microfluidic device for the high-throughput synthesis of Pd@AuPt core-shell nanoparticles to evaluate the performance of hydrogen peroxide generation. <i>Lab on A Chip</i> , 2020 , 20, 3293-3301	7.2	8
58	Hydrogen Bonding-Mediated Enhancement of Bioinspired Electrochemical Nitrogen Reduction on Cu ₂ S Catalysts. <i>ACS Catalysis</i> , 2020 , 10, 10577-10584	13.1	23
57	. <i>IEEE Access</i> , 2020 , 8, 152105-152115	3.5	12
56	Synthesis RhAg bimetallic composite nanoparticles for improved catalysts on direct synthesis of hydrogen peroxide generation. <i>Korean Journal of Chemical Engineering</i> , 2019 , 36, 1417-1420	2.8	6
55	Effects of compression and controlled selenization on powder-fabricated Cu(In,Ga)Se ₂ thin films. <i>Applied Surface Science</i> , 2019 , 475, 158-161	6.7	2
54	Thermally Stable Amorphous Oxide-based Schottky Diodes through Oxygen Vacancy Control at Metal/Oxide Interfaces. <i>Scientific Reports</i> , 2019 , 9, 7872	4.9	4

53	Unraveling the Origin and Mechanism of Nanofilament Formation in Polycrystalline SrTiO Resistive Switching Memories. <i>Advanced Materials</i> , 2019 , 31, e1901322	24	25
52	The Role of Zr Doping in Stabilizing Li[Ni Co Mn]O as a Cathode Material for Lithium-Ion Batteries. <i>ChemSusChem</i> , 2019 , 12, 2439-2446	8.3	30
51	Unlocking the Potential of Nanoparticles Composed of Immiscible Elements for Direct H ₂ O ₂ Synthesis. <i>ACS Catalysis</i> , 2019 , 9, 8702-8711	13.1	16
50	Resistive Switching: Unraveling the Origin and Mechanism of Nanofilament Formation in Polycrystalline SrTiO ₃ Resistive Switching Memories (Adv. Mater. 28/2019). <i>Advanced Materials</i> , 2019 , 31, 1970205	24	1
49	Anion Extraction-Induced Polymorph Control of Transition Metal Dichalcogenides. <i>Nano Letters</i> , 2019 , 19, 8644-8652	11.5	9
48	Dynamic Strain Aging and Serration Behavior of Three High-Manganese Austenitic Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 1693-1700	2.3	6
47	Rigid double-stranded siloxane-induced high-flux carbon molecular sieve hollow fiber membranes for CO ₂ /CH ₄ separation. <i>Journal of Membrane Science</i> , 2019 , 570-571, 504-512	9.6	28
46	Mechanochemically Synthesized SnS Nanocrystals: Impact of Nonstoichiometry on Phase Purity and Solar Cell Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 3002-3009	8.3	11
45	Chromium removal from aqueous solution by a PEI-silica nanocomposite. <i>Scientific Reports</i> , 2018 , 8, 14384	4.9	68
44	Mechanochemical synthesis of ZnS for fabrication of transparent ceramics. <i>Research on Chemical Intermediates</i> , 2018 , 44, 4721-4731	2.8	4
43	Metallic NiS Films Grown by Atomic Layer Deposition as an Efficient and Stable Electrocatalyst for Overall Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 12807-12815	9.5	63
42	Thermal Stability Enhanced Tetraethylenepentamine/Silica Adsorbents for High Performance CO ₂ Capture. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 4632-4639	3.9	35
41	Flame synthesized Y ₂ O ₃ :Tb ³⁺ /Mn ³⁺ phosphors as spectral convertors for solar cells. <i>Research on Chemical Intermediates</i> , 2018 , 44, 4619-4632	2.8	8
40	Increased mobility of an Al ₂ O ₃ grain boundary by electron-beam irradiation. <i>Journal of Materials Science</i> , 2018 , 53, 2383-2388	4.3	2
39	Effect of Strain Aging on Tensile Behavior and Properties of API X60, X70, and X80 Pipeline Steels. <i>Metals and Materials International</i> , 2018 , 24, 1221-1231	2.4	17
38	Investigation of the mechanism of chromium removal in (3-aminopropyl)trimethoxysilane functionalized mesoporous silica. <i>Scientific Reports</i> , 2018 , 8, 12078	4.9	14
37	Axial oxygen vacancy-regulated microwave absorption in micron-sized tetragonal BaTiO ₃ particles. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 9749-9755	7.1	16
36	Roughening and strain-field evolution at a grain boundary in Al ₂ O ₃ . <i>Physical Review Materials</i> , 2018 , 2,	3.2	4

35	One-pot synthesis of PdAu bimetallic composite nanoparticles and their catalytic activities for hydrogen peroxide generation. <i>Korean Journal of Chemical Engineering</i> , 2018 , 35, 2379-2383	2.8	13
34	Epoxide-Functionalized, Poly(ethylenimine)-Confined Silica/Polymer Module Affording Sustainable CO ₂ Capture in Rapid Thermal Swing Adsorption. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 13923-13931	3.9	7
33	Flame-synthesized Y ₂ O ₃ :Tb ³⁺ nanocrystals as spectral converting materials. <i>Journal of Nanoparticle Research</i> , 2018 , 20, 1	2.3	7
32	Near-infrared quantum cutting in Tb ³⁺ and Yb ³⁺ -doped Y ₂ O ₃ nanophosphors. <i>Research on Chemical Intermediates</i> , 2017 , 43, 3463-3471	2.8	4
31	ZnS Nano-Spheres Formed by the Aggregation of Small Crystallites and Their Photocatalytic Degradation of Eosin B. <i>Chinese Journal of Chemistry</i> , 2017 , 35, 159-164	4.9	11
30	Cu Diffusion-Driven Dynamic Modulation of the Electrical Properties of Amorphous Oxide Semiconductors. <i>Advanced Functional Materials</i> , 2017 , 27, 1700336	15.6	6
29	Synergetic control of band gap and structural transformation for optimizing TiO ₂ photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2017 , 210, 513-521	21.8	27
28	Unexpected Roles of Interstitially Doped Lithium in Blue and Green Light Emitting YO:Bi: A Combined Experimental and Computational Study. <i>Inorganic Chemistry</i> , 2017 , 56, 12139-12147	5.1	12
27	Lithiation Mechanism of Tunnel-Structured MnO Electrode Investigated by In Situ Transmission Electron Microscopy. <i>Advanced Materials</i> , 2017 , 29, 1703186	24	41
26	High photo-conversion efficiency in double-graded Cu(In,Ga)(S,Se) ₂ thin film solar cells with two-step sulfurization post-treatment. <i>Progress in Photovoltaics: Research and Applications</i> , 2017 , 25, 139-148	6.8	10
25	Preferred diffusion paths for copper electromigration by in situ transmission electron microscopy. <i>Ultramicroscopy</i> , 2017 , 181, 160-164	3.1	5
24	Enhanced photoluminescence due to Bi ³⁺ -Eu ³⁺ energy transfer and re-precipitation of RE doped homogeneous sized Y ₂ O ₃ nanophosphors. <i>Materials Research Bulletin</i> , 2016 , 83, 186-192	5.1	6
23	A foolproof method for phase transfer of metal nanoparticles via centrifugation. <i>Chemical Communications</i> , 2016 , 52, 1625-8	5.8	5
22	3D Cross-Point Plasmonic Nanoarchitectures Containing Dense and Regular Hot Spots for Surface-Enhanced Raman Spectroscopy Analysis. <i>Advanced Materials</i> , 2016 , 28, 8695-8704	24	127
21	Shape-controlled synthesis of gold-bimetallic nanoparticles and their electrocatalytic properties. <i>Materials Chemistry and Physics</i> , 2015 , 156, 1-8	4.4	12
20	Sequentially Self-Assembled Rings-in-Mesh Nanoplasmonic Arrays for Surface-Enhanced Raman Spectroscopy. <i>Chemistry of Materials</i> , 2015 , 27, 5007-5013	9.6	27
19	Ubiquitous magneto-mechano-electric generator. <i>Energy and Environmental Science</i> , 2015 , 8, 2402-2408	35.4	129
18	Enhancement of stability of aqueous suspension of alumina nanoparticles by femtosecond laser irradiation. <i>Journal of Applied Physics</i> , 2015 , 118, 114906	2.5	4

17	Highly crystalline Fe ₂ GeS ₄ nanocrystals: green synthesis and their structural and optical characterization. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 2265-2270	13	23
16	Effects of chloride and silver ions on gold nanorod formation. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 015001	1.4	1
15	Influences of Extended Selenization on Cu ₂ ZnSnSe ₄ Solar Cells Prepared from Quaternary Nanocrystal Ink. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 27657-27663	3.8	16
14	High-resolution nanotransfer printing applicable to diverse surfaces via interface-targeted adhesion switching. <i>Nature Communications</i> , 2014 , 5, 5387	17.4	125
13	Targeted multimodal imaging modalities. <i>Advanced Drug Delivery Reviews</i> , 2014 , 76, 60-78	18.5	78
12	Solvent-free synthesis of Cu ₂ ZnSnS ₄ nanocrystals: a facile, green, up-scalable route for low cost photovoltaic cells. <i>Nanoscale</i> , 2014 , 6, 11703-11	7.7	30
11	Copper nanoparticle incorporated plasmonic organic bulk-heterojunction solar cells. <i>Applied Physics Letters</i> , 2014 , 105, 223306	3.4	24
10	Hexagonally ordered nanoparticles templated using a block copolymer film through Coulombic interactions. <i>Nanotechnology</i> , 2013 , 24, 045305	3.4	18
9	A unique solid-solid transformation of silver nanoparticles on reactive ion-etching-processed silicon. <i>Nanotechnology</i> , 2012 , 23, 065301	3.4	1
8	SERS Substrates by the Assembly of Silver Nanocubes: High-Throughput and Enhancement Reliability Considerations. <i>Journal of Nanotechnology</i> , 2012 , 2012, 1-12	3.5	9
7	Self-Assembled SERS Substrates with Tunable Surface Plasmon Resonances. <i>Advanced Functional Materials</i> , 2011 , 21, 3424-3429	15.6	126
6	Dispersion in the SERS enhancement with silver nanocube dimers. <i>ACS Nano</i> , 2010 , 4, 5763-72	16.7	129
5	Blends of Oppositely Charged PEG-PPG-PEG Copolymers Displaying Improved Physical Thermogelling Properties. <i>Macromolecular Chemistry and Physics</i> , 2010 , 211, 692-697	2.6	7
4	A novel pH-sensitive PEG-PPG-PEG copolymer displaying a closed-loop sol-gel transition. <i>Journal of Materials Chemistry</i> , 2009 , 19, 8198		26
3	Porous ZrO ₂ bone scaffold coated with hydroxyapatite with fluorapatite intermediate layer. <i>Biomaterials</i> , 2003 , 24, 3277-84	15.6	164
2	Oxidation Behavior of Titanium Boride at Elevated Temperatures. <i>Journal of the American Ceramic Society</i> , 2001 , 84, 239-241	3.8	83
1	Highly Efficient Pure-Blue Perovskite Light-Emitting Diode Leveraging CsPbBr ₃ /Cs ₄ PbBr ₆ Nanocomposite Emissive Layer with Shallow Valence Band. <i>Advanced Optical Materials</i> , 2012 , 2, 102502	8.1	1