

# Seung-Yong Lee

## 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.

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	Porous ZrO <sub>2</sub> bone scaffold coated with hydroxyapatite with fluorapatite intermediate layer. <i>Biomaterials</i> , <b>2003</b> , 24, 3277-84	15.6	164
69	Ubiquitous magneto-mechano-electric generator. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 2402-2408	35.4	129
68	Dispersion in the SERS enhancement with silver nanocube dimers. <i>ACS Nano</i> , <b>2010</b> , 4, 5763-72	16.7	129
67	3D Cross-Point Plasmonic Nanoarchitectures Containing Dense and Regular Hot Spots for Surface-Enhanced Raman Spectroscopy Analysis. <i>Advanced Materials</i> , <b>2016</b> , 28, 8695-8704	24	127
66	Self-Assembled SERS Substrates with Tunable Surface Plasmon Resonances. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 3424-3429	15.6	126
65	High-resolution nanotransfer printing applicable to diverse surfaces via interface-targeted adhesion switching. <i>Nature Communications</i> , <b>2014</b> , 5, 5387	17.4	125
64	Oxidation Behavior of Titanium Boride at Elevated Temperatures. <i>Journal of the American Ceramic Society</i> , <b>2001</b> , 84, 239-241	3.8	83
63	Targeted multimodal imaging modalities. <i>Advanced Drug Delivery Reviews</i> , <b>2014</b> , 76, 60-78	18.5	78
62	Chromium removal from aqueous solution by a PEI-silica nanocomposite. <i>Scientific Reports</i> , <b>2018</b> , 8, 14384	4.9	68
61	Metallic NiS Films Grown by Atomic Layer Deposition as an Efficient and Stable Electrocatalyst for Overall Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 12807-12815	9.5	63
60	Lithiation Mechanism of Tunnel-Structured MnO Electrode Investigated by In Situ Transmission Electron Microscopy. <i>Advanced Materials</i> , <b>2017</b> , 29, 1703186	24	41
59	Thermal Stability Enhanced Tetraethylenepentamine/Silica Adsorbents for High Performance CO <sub>2</sub> Capture. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 4632-4639	3.9	35
58	The Role of Zr Doping in Stabilizing Li[Ni Co Mn ]O as a Cathode Material for Lithium-Ion Batteries. <i>ChemSusChem</i> , <b>2019</b> , 12, 2439-2446	8.3	30
57	Solvent-free synthesis of Cu <sub>2</sub> ZnSnS <sub>4</sub> nanocrystals: a facile, green, up-scalable route for low cost photovoltaic cells. <i>Nanoscale</i> , <b>2014</b> , 6, 11703-11	7.7	30
56	Rigid double-stranded siloxane-induced high-flux carbon molecular sieve hollow fiber membranes for CO <sub>2</sub> /CH <sub>4</sub> separation. <i>Journal of Membrane Science</i> , <b>2019</b> , 570-571, 504-512	9.6	28
55	Synergetic control of band gap and structural transformation for optimizing TiO <sub>2</sub> photocatalysts. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 210, 513-521	21.8	27
54	Sequentially Self-Assembled Rings-in-Mesh Nanoplasmonic Arrays for Surface-Enhanced Raman Spectroscopy. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 5007-5013	9.6	27

53	A novel pH-sensitive PEG-PPG-PEG copolymer displaying a closed-loop sol-gel transition. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 8198		26
52	Unraveling the Origin and Mechanism of Nanofilament Formation in Polycrystalline SrTiO Resistive Switching Memories. <i>Advanced Materials</i> , <b>2019</b> , 31, e1901322	24	25
51	Copper nanoparticle incorporated plasmonic organic bulk-heterojunction solar cells. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 223306	3.4	24
50	Highly crystalline Fe <sub>2</sub> GeS <sub>4</sub> nanocrystals: green synthesis and their structural and optical characterization. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 2265-2270	13	23
49	Hydrogen Bonding-Mediated Enhancement of Bioinspired Electrochemical Nitrogen Reduction on Cu <sub>2</sub> S Catalysts. <i>ACS Catalysis</i> , <b>2020</b> , 10, 10577-10584	13.1	23
48	Hexagonally ordered nanoparticles templated using a block copolymer film through Coulombic interactions. <i>Nanotechnology</i> , <b>2013</b> , 24, 045305	3.4	18
47	Effect of Strain Aging on Tensile Behavior and Properties of API X60, X70, and X80 Pipeline Steels. <i>Metals and Materials International</i> , <b>2018</b> , 24, 1221-1231	2.4	17
46	Axial oxygen vacancy-regulated microwave absorption in micron-sized tetragonal BaTiO <sub>3</sub> particles. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 9749-9755	7.1	16
45	Unlocking the Potential of Nanoparticles Composed of Immiscible Elements for Direct H <sub>2</sub> O <sub>2</sub> Synthesis. <i>ACS Catalysis</i> , <b>2019</b> , 9, 8702-8711	13.1	16
44	Influences of Extended Selenization on Cu <sub>2</sub> ZnSnSe <sub>4</sub> Solar Cells Prepared from Quaternary Nanocrystal Ink. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 27657-27663	3.8	16
43	Most suitable amino silane molecules for surface functionalization of graphene oxide toward hexavalent chromium adsorption. <i>Chemosphere</i> , <b>2020</b> , 251, 126387	8.4	15
42	Investigation of the mechanism of chromium removal in (3-aminopropyl)trimethoxysilane functionalized mesoporous silica. <i>Scientific Reports</i> , <b>2018</b> , 8, 12078	4.9	14
41	One-pot synthesis of PdAu bimetallic composite nanoparticles and their catalytic activities for hydrogen peroxide generation. <i>Korean Journal of Chemical Engineering</i> , <b>2018</b> , 35, 2379-2383	2.8	13
40	Unexpected Roles of Interstitially Doped Lithium in Blue and Green Light Emitting YO:Bi: A Combined Experimental and Computational Study. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 12139-12147	5.1	12
39	Shape-controlled synthesis of gold-silver bimetallic nanoparticles and their electrocatalytic properties. <i>Materials Chemistry and Physics</i> , <b>2015</b> , 156, 1-8	4.4	12
38	. <i>IEEE Access</i> , <b>2020</b> , 8, 152105-152115	3.5	12
37	ZnS Nano-Spheres Formed by the Aggregation of Small Crystallites and Their Photocatalytic Degradation of Eosin B. <i>Chinese Journal of Chemistry</i> , <b>2017</b> , 35, 159-164	4.9	11
36	Mechanochemically Synthesized SnS Nanocrystals: Impact of Nonstoichiometry on Phase Purity and Solar Cell Performance. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 3002-3009	8.3	11

35	High photo-conversion efficiency in double-graded Cu(In,Ga)(S,Se) <sub>2</sub> thin film solar cells with two-step sulfurization post-treatment. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2017</b> , 25, 139-148	6.8	10
34	Anion Extraction-Induced Polymorph Control of Transition Metal Dichalcogenides. <i>Nano Letters</i> , <b>2019</b> , 19, 8644-8652	11.5	9
33	SERS Substrates by the Assembly of Silver Nanocubes: High-Throughput and Enhancement Reliability Considerations. <i>Journal of Nanotechnology</i> , <b>2012</b> , 2012, 1-12	3.5	9
32	Luminescent silica films prepared using perhydropolysilazane and Mn-doped ZnS nanophosphors. <i>Applied Surface Science</i> , <b>2020</b> , 511, 145441	6.7	8
31	Flame synthesized Y <sub>2</sub> O <sub>3</sub> :Tb <sup>3+</sup> phosphors as spectral converters for solar cells. <i>Research on Chemical Intermediates</i> , <b>2018</b> , 44, 4619-4632	2.8	8
30	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> , <b>2020</b> , 20, 3293-3301	7.2	8
29	Solid-solution alloying of immiscible Pt and Au boosts catalytic performance for H <sub>2</sub> O <sub>2</sub> direct synthesis. <i>Acta Materialia</i> , <b>2021</b> , 205, 116563	8.4	8
28	Blends of Oppositely Charged PEGBPGPEG Copolymers Displaying Improved Physical Thermogelling Properties. <i>Macromolecular Chemistry and Physics</i> , <b>2010</b> , 211, 692-697	2.6	7
27	Epoxide-Functionalized, Poly(ethylenimine)-Confined Silica/Polymer Module Affording Sustainable CO <sub>2</sub> Capture in Rapid Thermal Swing Adsorption. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 13923-13931	3.9	7
26	Flame-synthesized Y <sub>2</sub> O <sub>3</sub> :Tb <sup>3+</sup> nanocrystals as spectral converting materials. <i>Journal of Nanoparticle Research</i> , <b>2018</b> , 20, 1	2.3	7
25	A supramolecular host-guest interaction-mediated injectable hydrogel system with enhanced stability and sustained protein release. <i>Acta Biomaterialia</i> , <b>2021</b> , 131, 286-301	10.8	7
24	Cu Diffusion-Driven Dynamic Modulation of the Electrical Properties of Amorphous Oxide Semiconductors. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1700336	15.6	6
23	Synthesis RhAg bimetallic composite nanoparticles for improved catalysts on direct synthesis of hydrogen peroxide generation. <i>Korean Journal of Chemical Engineering</i> , <b>2019</b> , 36, 1417-1420	2.8	6
22	Facile Direct Seed-Mediated Growth of AuPt Bimetallic Shell on the Surface of Pd Nanocubes and Application for Direct H <sub>2</sub> O <sub>2</sub> Synthesis. <i>Catalysts</i> , <b>2020</b> , 10, 650	4	6
21	Enhanced photoluminescence due to Bi <sup>3+</sup> -Eu <sup>3+</sup> energy transfer and re-precipitation of RE doped homogeneous sized Y <sub>2</sub> O <sub>3</sub> nanophosphors. <i>Materials Research Bulletin</i> , <b>2016</b> , 83, 186-192	5.1	6
20	Dynamic Strain Aging and Serration Behavior of Three High-Manganese Austenitic Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2019</b> , 50, 1693-1700	2.3	6
19	A foolproof method for phase transfer of metal nanoparticles via centrifugation. <i>Chemical Communications</i> , <b>2016</b> , 52, 1625-8	5.8	5
18	Preferred diffusion paths for copper electromigration by in situ transmission electron microscopy. <i>Ultramicroscopy</i> , <b>2017</b> , 181, 160-164	3.1	5

17	Near-infrared quantum cutting in Tb <sup>3+</sup> and Yb <sup>3+</sup> -doped Y <sub>2</sub> O <sub>3</sub> nanophosphors. <i>Research on Chemical Intermediates</i> , <b>2017</b> , 43, 3463-3471	2.8	4
16	Thermally Stable Amorphous Oxide-based Schottky Diodes through Oxygen Vacancy Control at Metal/Oxide Interfaces. <i>Scientific Reports</i> , <b>2019</b> , 9, 7872	4.9	4
15	Mechanochemical synthesis of ZnS for fabrication of transparent ceramics. <i>Research on Chemical Intermediates</i> , <b>2018</b> , 44, 4721-4731	2.8	4
14	Enhancement of stability of aqueous suspension of alumina nanoparticles by femtosecond laser irradiation. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 114906	2.5	4
13	Roughening and strain-field evolution at a grain boundary in Al <sub>2</sub> O <sub>3</sub> . <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	4
12	High-throughput computational-experimental screening protocol for the discovery of bimetallic catalysts. <i>Npj Computational Materials</i> , <b>2021</b> , 7,	10.9	4
11	Performance of a silica-polyethyleneimine adsorbent for post-combustion CO <sub>2</sub> capture on a 100 kg scale in a fluidized bed continuous unit. <i>Chemical Engineering Journal</i> , <b>2021</b> , 407, 127209	14.7	3
10	Effects of compression and controlled selenization on powder-fabricated Cu(In,Ga)Se <sub>2</sub> thin films. <i>Applied Surface Science</i> , <b>2019</b> , 475, 158-161	6.7	2
9	Performance Differences of Hexavalent Chromium Adsorbents Caused by Graphene Oxide Drying Process. <i>Scientific Reports</i> , <b>2020</b> , 10, 4882	4.9	2
8	Increased mobility of an Al <sub>2</sub> O <sub>3</sub> grain boundary by electron-beam irradiation. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 2383-2388	4.3	2
7	Hollow/porous-walled SnO <sub>2</sub> via nanoscale Kirkendall diffusion with irregular particles. <i>Acta Materialia</i> , <b>2020</b> , 186, 20-28	8.4	2
6	Resistive Switching: Unraveling the Origin and Mechanism of Nanofilament Formation in Polycrystalline SrTiO <sub>3</sub> Resistive Switching Memories (Adv. Mater. 28/2019). <i>Advanced Materials</i> , <b>2019</b> , 31, 1970205	24	1
5	Effects of chloride and silver ions on gold nanorod formation. <i>Japanese Journal of Applied Physics</i> , <b>2015</b> , 54, 015001	1.4	1
4	A unique solid-solid transformation of silver nanoparticles on reactive ion-etching-processed silicon. <i>Nanotechnology</i> , <b>2012</b> , 23, 065301	3.4	1
3	Highly Efficient Pure-Blue Perovskite Light-Emitting Diode Leveraging CsPbBr <sub>3-x</sub> Cl <sub>3x/4</sub> /Cs <sub>4</sub> PbBr <sub>3-x</sub> Cl <sub>6x/4</sub> Nanocomposite Emissive Layer with Shallow Valence Band. <i>Advanced Optical Materials</i> , <b>2021</b> , 10, 2102502	8.1	1
2	Rationally designed CuSb <sub>1-x</sub> Bi <sub>x</sub> S <sub>2</sub> as a promising photovoltaic material: Theoretical and experimental study. <i>Scripta Materialia</i> , <b>2020</b> , 179, 107-112	5.6	0
1	Highly Efficient Pure-Blue Perovskite Light-Emitting Diode Leveraging CsPbBr <sub>3-x</sub> Cl <sub>3x/4</sub> /Cs <sub>4</sub> PbBr <sub>3-x</sub> Cl <sub>6x/4</sub> Nanocomposite Emissive Layer with Shallow V. <i>Advanced Optical Materials</i> , <b>2022</b> , 10, 2270024	8.1	0