

Sungho Lee

List of Publications by Year in Descending Order

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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.

59 papers	1,274 citations	22 h-index	34 g-index
64 ext. papers	1,590 ext. citations	7.5 avg, IF	4.85 L-index

#	Paper	IF	Citations
59	Strategies for the production of PAN-Based carbon fibers with high tensile strength. <i>Carbon</i> , 2022 , 186, 644-677	10.4	5
58	Microstructural evolution of polyacrylonitrile fibers during industry-mimicking continuous stabilization. <i>Carbon</i> , 2022 , 195, 165-173	10.4	1
57	Understanding an Exceptionally Fast and Stable Li-Ion Charging of Highly Fluorinated Graphene with Fine-Controlled C-F Configuration. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 53767-53776	9.5	0
56	Upcycling Plastic Waste into High Value-Added Carbonaceous Materials. <i>Macromolecular Rapid Communications</i> , 2021 , e2100467	4.8	9
55	Recycling of waste tires by synthesizing N-doped carbon-based catalysts for oxygen reduction reaction. <i>Applied Surface Science</i> , 2021 , 548, 149027	6.7	7
54	Effect of Textile PAN-Based Carbon Fibers with Rough Surface on Interfacial Adhesion in PA6 Composites. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 9088-9097	3.9	1
53	Stable fast-charging electrodes derived from hierarchical porous carbon for lithium-ion batteries. <i>International Journal of Energy Research</i> , 2021 , 45, 4718-4726	4.5	3
52	Direct surface functionalization of transparent carbon nanosheet electrodes for organic photovoltaics. <i>Materials Letters</i> , 2021 , 283, 128777	3.3	
51	Enhancing physical properties of mesophase pitch-based graphite fibers by modulating initial stabilization temperature. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 94, 397-407	6.3	3
50	Efficient upcycling of polypropylene-based waste disposable masks into hard carbons for anodes in sodium ion batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 105, 268-268	6.3	5
49	Silk Protein-Derived carbon fabric as an electrode with high Electro-Catalytic activity for All-Vanadium redox flow batteries. <i>Applied Surface Science</i> , 2021 , 567, 150810	6.7	3
48	Polyacrylonitrile-based carbon nanofibers as a matrix for laser desorption/ionization time-of-flight mass spectrometric analysis of small molecules under both positive and negative ionization modes. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 413, 1193-1202	4.4	2
47	Amorphous MoS _x embedded within edges of modified graphite as fast-charging anode material for rechargeable batteries. <i>Applied Surface Science</i> , 2020 , 509, 145352	6.7	6
46	Evolution of structural inhomogeneity in polyacrylonitrile fibers by oxidative stabilization. <i>Carbon</i> , 2020 , 165, 225-237	10.4	21
45	Electrolyte-Dependent Sodium Ion Transport Behaviors in Hard Carbon Anode. <i>Small</i> , 2020 , 16, e20010531	13.1	8
44	Eco-friendly cellulose-derived transparent carbon nanosheet electrodes. <i>Materials Research Bulletin</i> , 2020 , 132, 110999	5.1	3
43	Fe-based non-noble metal catalysts with dual active sites of nanosized metal carbide and single-atomic species for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 22379-22388	13.8	8

42	Upcycling of lignin waste to activated carbon for supercapacitor electrode and organic adsorbent. <i>Korean Journal of Chemical Engineering</i> , 2019 , 36, 1543-1547	2.8	11
41	Unusual Thermal Conductivity of Carbon Nanosheets with Self-Emerged Graphitic Carbon Dots. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 13616-13623	9.5	5
40	Insight into the superior activity of bridging sulfur-rich amorphous molybdenum sulfide for electrochemical hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2019 , 258, 117995	21.8	28
39	Opto-thermal technique for measuring thermal conductivity of polyacrylonitrile based carbon fibers. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 78, 137-142	6.3	6
38	Selectivity Modulated by Surface Ligands on Cu ₂ O/TiO ₂ Catalysts for Gas-Phase Photocatalytic Reduction of Carbon Dioxide. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 29184-29191	3.8	14
37	Pyroprotein-Derived Hard Carbon Fibers Exhibiting Exceptionally High Plateau Capacities for Sodium Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019 , 2, 1185-1191	6.1	20
36	Transparent carbon nanosheet from polyethylene using E-beam pre-treatment. <i>Materials Letters</i> , 2019 , 236, 210-213	3.3	2
35	Fabrication of low-cost carbon fibers using economical precursors and advanced processing technologies. <i>Carbon</i> , 2019 , 142, 610-649	10.4	94
34	Effects of ultraviolet irradiation on stabilization of textile-grade polyacrylonitrile fibers without photo-initiator for preparing carbon fibers. <i>Carbon</i> , 2019 , 144, 440-448	10.4	10
33	Pyrolytic Carbon Nanosheets for Ultrafast and Ultrastable Sodium-Ion Storage. <i>Small</i> , 2018 , 14, e17030431	3.1	19
32	Micromesh carbon nanosheet electrodes fabricated by phase-separation of immiscible polymer blends. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 64, 76-79	6.3	3
31	Understanding the Origin of Formation and Active Sites for Thiomolybdate [Mo ₃ S ₁₃] ₂ Clusters as Hydrogen Evolution Catalyst through the Selective Control of Sulfur Atoms. <i>ACS Catalysis</i> , 2018 , 8, 5221-5227	13.1	36
30	Effects of stabilization variables on mechanical properties of isotropic pitch based carbon fibers. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 58, 349-356	6.3	19
29	Carbon Nanosheet from Polyethylene Thin Film as a Transparent Conducting Film: Upcycling of Waste to Organic Photovoltaics Application. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 12463-12470	8.3	18
28	Reinforced PEI/PVdF Multicore-Shell Structure Composite Membranes by Phase Prediction on a Ternary Solution. <i>Polymers</i> , 2018 , 10,	4.5	2
27	Structural evolution of pitch fibers during low temperature carbonization. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018 , 136, 153-159	6	18
26	Investigation into the Gelation of Polyacrylonitrile Solution Induced by Dry-jet in Spinning Process and Its Effects on Diffusional Process in Coagulation and Structural Properties of Carbon Fibers. <i>Macromolecular Research</i> , 2018 , 26, 544-551	1.9	4
25	Bi-axial grown amorphous MoS ₂ bridged with oxygen on r-GO as a superior stable and efficient nonprecious catalyst for hydrogen evolution. <i>Scientific Reports</i> , 2017 , 7, 41190	4.9	26

24	Multi-functional nitrogen self-doped graphene quantum dots for boosting the photovoltaic performance of BHJ solar cells. <i>Nano Energy</i> , 2017 , 34, 36-46	17.1	33
23	Iron oxide/porous carbon as a heterogeneous Fenton catalyst for fast decomposition of hydrogen peroxide and efficient removal of methylene blue. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 748-755	13	63
22	High Performance Graphitic Carbon from Waste Polyethylene: Thermal Oxidation as a Stabilization Pathway Revisited. <i>Chemistry of Materials</i> , 2017 , 29, 9518-9527	9.6	36
21	Highly durable platinum nanoparticles on carbon derived from pitch-based carbon fibers for oxygen reduction reaction. <i>Macromolecular Research</i> , 2017 , 25, 1158-1162	1.9	3
20	Ultra strong pyroprotein fibres with long-range ordering. <i>Nature Communications</i> , 2017 , 8, 74	17.4	37
19	Evaluating the stabilization of isotropic pitch fibers for optimal tensile properties of carbon fibers. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 45, 316-322	6.3	26
18	Carbon nanosheets by the graphenization of ungraphitizable isotropic pitch molecules. <i>Carbon</i> , 2017 , 121, 479-489	10.4	23
17	Multicore-shell nanofiber architecture of polyimide/polyvinylidene fluoride blend for thermal and long-term stability of lithium ion battery separator. <i>Scientific Reports</i> , 2016 , 6, 36977	4.9	29
16	Comprehensive stabilization mechanism of electron-beam irradiated polyacrylonitrile fibers to shorten the conventional thermal treatment. <i>Scientific Reports</i> , 2016 , 6, 27330	4.9	40
15	Strengthened PAN-based carbon fibers obtained by slow heating rate carbonization. <i>Scientific Reports</i> , 2016 , 6, 22988	4.9	30
14	Two step microwave plasma carbonization including low plasma power pre-carbonization for polyacrylonitrile based carbon fiber. <i>Polymer</i> , 2015 , 69, 123-128	3.9	23
13	Ultra-high dispersion of graphene in polymer composite via solvent free fabrication and functionalization. <i>Scientific Reports</i> , 2015 , 5, 9141	4.9	83
12	Sodium-Ion Storage in Pyroprotein-Based Carbon Nanoplates. <i>Advanced Materials</i> , 2015 , 27, 6914-21	24	107
11	Highly flexible and bendable carbon nanosheets as transparent conducting electrodes for organic solar cells. <i>Carbon</i> , 2015 , 81, 546-551	10.4	22
10	Carbonization of a stable B-sheet-rich silk protein into a pseudographitic pyroprotein. <i>Nature Communications</i> , 2015 , 6, 7145	17.4	147
9	Study on the stabilization of isotropic pitch based fibers. <i>Macromolecular Research</i> , 2015 , 23, 79-85	1.9	16
8	One-step synthesis of carbon nanosheets converted from a polycyclic compound and their direct use as transparent electrodes of ITO-free organic solar cells. <i>Nanoscale</i> , 2014 , 6, 678-82	7.7	26
7	High-speed fabrication of thermoplastic carbon fiber fabric composites with a polymerizable, low-viscosity cyclic butylene terephthalate matrix for automotive applications. <i>Macromolecular Research</i> , 2014 , 22, 528-533	1.9	7

6	Effects of drawing process on the structure and tensile properties of textile-grade PAN fiber and its carbon fiber. <i>E-Polymers</i> , 2014 , 14, 217-224	2.7	7
5	Synthesis and properties of an atomically thin carbon nanosheet similar to graphene and its promising use as an organic thin film transistor. <i>Carbon</i> , 2013 , 55, 299-304	10.4	34
4	Efficient organic solar cells with solution-processed carbon nanosheets as transparent electrodes. <i>Applied Physics Letters</i> , 2013 , 102, 043304	3.4	30
3	Efficient ITO-free polymer solar cells with pitch-converted carbon nanosheets as novel solution-processable transparent electrodes. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 115, 1-6	6.4	28
2	Upcycling waste tires to affordable catalysts for the oxygen reduction reaction. <i>International Journal of Energy Research</i> ,	4.5	1
1	High-capacity anode derived from graphene oxide with lithium-active functional groups. <i>International Journal of Energy Research</i> ,	4.5	1