

# Sun Hwa Lee

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

5,576  
citations

117625

34  
h-index

168389

53  
g-index

55  
all docs

55  
docs citations

55  
times ranked

9416  
citing authors

#	ARTICLE	IF	CITATIONS
1	Noncovalent functionalization of graphene with end-functional polymers. <i>Journal of Materials Chemistry</i> , 2010, 20, 1907.	6.7	553
2	Graphene Oxide Liquid Crystals. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3043-3047.	13.8	534
3	Thin Film Fabrication and Simultaneous Anodic Reduction of Deposited Graphene Oxide Platelets by Electrophoretic Deposition. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 1259-1263.	4.6	436
4	Three-dimensional Self-assembly of Graphene Oxide Platelets into Mechanically Flexible Macroporous Carbon Films. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 10084-10088.	13.8	404
5	Polymer Brushes via Controlled, Surface-initiated Atom Transfer Radical Polymerization (ATRP) from Graphene Oxide. <i>Macromolecular Rapid Communications</i> , 2010, 31, 281-288.	3.9	350
6	Workfunction-Tunable, N-Doped Reduced Graphene Transparent Electrodes for High-Performance Polymer Light-Emitting Diodes. <i>ACS Nano</i> , 2012, 6, 159-167.	14.6	297
7	Selective Electron- or Hole-transport Enhancement in Bulk-heterojunction Organic Solar Cells with N- or B-doped Carbon Nanotubes. <i>Advanced Materials</i> , 2011, 23, 629-633.	21.0	248
8	Vapor-Phase Polymerization of Nanofibrillar Poly(3,4-ethylenedioxythiophene) for Supercapacitors. <i>ACS Nano</i> , 2014, 8, 1500-1510.	14.6	217
9	Mussel Inspired Highly Aligned Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene Film with Synergistic Enhancement of Mechanical Strength and Ambient Stability. <i>ACS Nano</i> , 2020, 14, 11722-11732.	14.6	212
10	Tailored Assembly of Carbon Nanotubes and Graphene. <i>Advanced Functional Materials</i> , 2011, 21, 1338-1354.	14.9	207
11	Thermomechanical properties of chemically modified graphene/poly(methyl methacrylate) composites made by in situ polymerization. <i>Carbon</i> , 2011, 49, 2615-2623.	10.3	204
12	Colossal grain growth yields single-crystal metal foils by contact-free annealing. <i>Science</i> , 2018, 362, 1021-1025.	12.6	158
13	Large-area single-crystal AB-bilayer and ABA-trilayer graphene grown on a Cu/Ni(111) foil. <i>Nature Nanotechnology</i> , 2020, 15, 289-295.	31.5	141
14	Controlled Folding of Single Crystal Graphene. <i>Nano Letters</i> , 2017, 17, 1467-1473.	9.1	92
15	Necklace-like Nitrogen-Doped Tubular Carbon 3D Frameworks for Electrochemical Energy Storage. <i>Advanced Functional Materials</i> , 2020, 30, 1909725.	14.9	89
16	A ZnO/N-doped carbon nanotube nanocomposite charge transport layer for high performance optoelectronics. <i>Journal of Materials Chemistry</i> , 2012, 22, 12695.	6.7	86
17	Lithium Accommodation in a Redox-Active Covalent Triazine Framework for High Areal Capacity and Fast-Charging Lithium-ion Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 2003761.	14.9	86
18	Hierarchically Ordered Polymer Films by Templated Organization of Aqueous Droplets. <i>Advanced Functional Materials</i> , 2007, 17, 2315-2320.	14.9	72

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19	Highly entangled carbon nanotube scaffolds by self-organized aqueous droplets. <i>Soft Matter</i> , 2009, 5, 2343-2346.	2.7	70
20	Simple Preparation of High-Quality Graphene Flakes without Oxidation Using Potassium Salts. <i>Small</i> , 2011, 7, 864-868.	10.0	69
21	Support-Free Transfer of Ultrasoother Graphene Films Facilitated by Self-Assembled Monolayers for Electronic Devices and Patterns. <i>ACS Nano</i> , 2016, 10, 1404-1410.	14.6	69
22	Role of Graphene in Water-Assisted Oxidation of Copper in Relation to Dry Transfer of Graphene. <i>Chemistry of Materials</i> , 2017, 29, 4546-4556.	6.7	63
23	Liquid-Metal-Templated Synthesis of 2D Graphitic Materials at Room Temperature. <i>Advanced Materials</i> , 2020, 32, e2001997.	21.0	63
24	DNA Origami Nanopatterning on Chemically Modified Graphene. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 912-915.	13.8	59
25	Li-Anode Protective Layers for Li Rechargeable Batteries via Layer-by-Layer Approaches. <i>Chemistry of Materials</i> , 2014, 26, 2579-2585.	6.7	56
26	Controlling the Thickness of Thermally Expanded Films of Graphene Oxide. <i>ACS Nano</i> , 2017, 11, 665-674.	14.6	55
27	Porous Two-Dimensional Monolayer Metal-Organic Framework Material and Its Use for the Size-Selective Separation of Nanoparticles. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 28107-28116.	8.0	51
28	Partial Oxidation-Induced Electrical Conductivity and Paramagnetism in a Ni(II) Tetraaza[14]annulene-Linked Metal Organic Framework. <i>Journal of the American Chemical Society</i> , 2019, 141, 16884-16893.	13.7	51
29	Synthesis of a Copper 1,3,5-Triamino-2,4,6-benzenetriol Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2020, 142, 18346-18354.	13.7	51
30	Synthesis of Porous Covalent Quinazoline Networks (CQNs) and Their Gas Sorption Properties. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 872-876.	13.8	46
31	Organic Radical-Linked Covalent Triazine Framework with Paramagnetic Behavior. <i>ACS Nano</i> , 2019, 13, 5251-5258.	14.6	43
32	Macroporous Polymer Thin Film Prepared from Temporarily Stabilized Water-in-Oil Emulsion. <i>Journal of Physical Chemistry B</i> , 2006, 110, 13959-13964.	2.6	35
33	Biomimetic mineralization of vertical N-doped carbon nanotubes. <i>Chemical Communications</i> , 2011, 47, 535-537.	4.1	31
34	Self-organized grafting of carbon nanotubes by end-functionalized polymers. <i>Macromolecular Research</i> , 2008, 16, 261-266.	2.4	30
35	Sodide and Organic Halides Effect Covalent Functionalization of Single-Layer and Bilayer Graphene. <i>Journal of the American Chemical Society</i> , 2017, 139, 4202-4210.	13.7	27
36	Electroless Bimetal Decoration on N-Doped Carbon Nanotubes and Graphene for Oxygen Reduction Reaction Catalysts. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 965-970.	2.3	21

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37	Polymer/carbon nanotube nanocomposites via noncovalent grafting with end-functionalized polymers. <i>Journal of Applied Polymer Science</i> , 2008, 110, 2345-2351.	2.6	20
38	Water-repellent macroporous carbon nanotube/elastomer nanocomposites by self-organized aqueous droplets. <i>Macromolecular Research</i> , 2009, 17, 666-671.	2.4	18
39	Synthesis of Diamond-Like Carbon Nanofiber Films. <i>ACS Nano</i> , 2020, 14, 13663-13672.	14.6	14
40	Structural insights into hydrogenated graphite prepared from fluorinated graphite through Birch-type reduction. <i>Carbon</i> , 2017, 121, 309-321.	10.3	12
41	Stage-1 cationic C60 intercalated graphene oxide films. <i>Carbon</i> , 2021, 175, 131-140.	10.3	11
42	Synthesis of Porous Covalent Quinazoline Networks (CQNs) and Their Gas Sorption Properties. <i>Angewandte Chemie</i> , 2019, 131, 882-886.	2.0	9
43	Synthesis of Highly Oriented Graphite Films with a Low Wrinkle Density and Near-Millimeter-Scale Lateral Grains. <i>Chemistry of Materials</i> , 2020, 32, 3134-3143.	6.7	9
44	Electrochemical Formation of a Covalent-Ionic Stage-1 Graphite Intercalation Compound with Trifluoroacetic Acid. <i>Chemistry of Materials</i> , 2022, 34, 217-231.	6.7	6
45	Fabrication of Ordered Porous SWNT-Polymer Nanocomposites by Emulsion Templating. <i>Macromolecular Symposia</i> , 2007, 249-250, 618-622.	0.7	5
46	Alkylated sulfonated poly(arylene sulfone)s for proton exchange membranes. <i>Macromolecular Research</i> , 2017, 25, 400-407.	2.4	5
47	UV-crosslinked poly(arylene ether sulfone) LAPONITE® nanocomposites for proton exchange membranes. <i>RSC Advances</i> , 2017, 7, 28358-28365.	3.6	5
48	Large-Area Uniform 1-nm-Level Amorphous Carbon Layers from 3D Conformal Polymer Brushes. A Next-Generation Cu Diffusion Barrier?. <i>Advanced Materials</i> , 2022, 34, e21110454.	21.0	5
49	Controllable electrodeposition of ordered carbon nanowalls on Cu(111) substrates. <i>Materials Today</i> , 2022, 57, 75-83.	14.2	3
50	Tailored Assembly of Carbon Nanostructures: Tailored Assembly of Carbon Nanotubes and Graphene ( <i>Adv. Funct. Mater.</i> 8/2011). <i>Advanced Functional Materials</i> , 2011, 21, 1329-1329.	14.9	2
51	Back Cover: DNA Origami Nanopatterning on Chemically Modified Graphene ( <i>Angew. Chem. Int. Ed.</i> ) Tj ETQq1 1 0.784314 rgBT / Overbo 13.8	13.8	0