

Liang Huang

List of Publications by Year in descending order

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43
papers

4,643
citations

218677

26
h-index

276875

41
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all docs

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docs citations

43
times ranked

7039
citing authors

#	ARTICLE	IF	CITATIONS
1	High-yield preparation of graphene oxide from small graphite flakes via an improved Hummers method with a simple purification process. <i>Carbon</i> , 2015, 81, 826-834.	10.3	443
2	High-performance NO ₂ Sensors Based on Chemically Modified Graphene. <i>Advanced Materials</i> , 2013, 25, 766-771.	21.0	404
3	Highly Compressible Macroporous Graphene Monoliths via an Improved Hydrothermal Process. <i>Advanced Materials</i> , 2014, 26, 4789-4793.	21.0	354
4	Reduced Graphene Oxide Membranes for Ultrafast Organic Solvent Nanofiltration. <i>Advanced Materials</i> , 2016, 28, 8669-8674.	21.0	349
5	Graphene-Based Membranes for Molecular Separation. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2806-2815.	4.6	316
6	Water-enhanced oxidation of graphite to graphene oxide with controlled species of oxygenated groups. <i>Chemical Science</i> , 2016, 7, 1874-1881.	7.4	251
7	Base-induced Liquid Crystals of Graphene Oxide for Preparing Elastic Graphene Foams with Long-range Ordered Microstructures. <i>Advanced Materials</i> , 2016, 28, 1623-1629.	21.0	193
8	Graphene Oxide Membranes with Tunable Semipermeability in Organic Solvents. <i>Advanced Materials</i> , 2015, 27, 3797-3802.	21.0	192
9	Ultratough, Ultrastrong, and Highly Conductive Graphene Films with Arbitrary Sizes. <i>Advanced Materials</i> , 2014, 26, 7588-7592.	21.0	182
10	Strong composite films with layered structures prepared by casting silk fibroin-graphene oxide hydrogels. <i>Nanoscale</i> , 2013, 5, 3780.	5.6	160
11	Multifunctional Pristine Chemically Modified Graphene Films as Strong as Stainless Steel. <i>Advanced Materials</i> , 2015, 27, 6708-6713.	21.0	157
12	Ultrasensitive and Selective Nitrogen Dioxide Sensor Based on Self-Assembled Graphene/Polymer Composite Nanofibers. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 17003-17008.	8.0	153
13	Size Fractionation of Graphene Oxide Sheets via Filtration through Track-etched Membranes. <i>Advanced Materials</i> , 2015, 27, 3654-3660.	21.0	149
14	High-Quality Graphene Ribbons Prepared from Graphene Oxide Hydrogels and Their Application for Strain Sensors. <i>ACS Nano</i> , 2015, 9, 12320-12326.	14.6	148
15	An ultrahigh-rate electrochemical capacitor based on solution-processed highly conductive PEDOT:PSS films for AC line-filtering. <i>Energy and Environmental Science</i> , 2016, 9, 2005-2010.	30.8	142
16	Three-dimensional porous graphene/polyaniline composites for high-rate electrochemical capacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17489-17494.	10.3	138
17	Graphene-based Nanomaterials for Flexible and Wearable Supercapacitors. <i>Small</i> , 2018, 14, e1800879.	10.0	107
18	Rightsizing Nanochannels in Reduced Graphene Oxide Membranes by Solvating for Dye Desalination. <i>Environmental Science & Technology</i> , 2018, 52, 12649-12655.	10.0	85

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19	High-performance and flexible electrochemical capacitors based on graphene/polymer composite films. <i>Journal of Materials Chemistry A</i> , 2014, 2, 968-974.	10.3	79
20	Synthesis of graphene oxide sheets with controlled sizes from sieved graphite flakes. <i>Carbon</i> , 2016, 110, 34-40.	10.3	77
21	Highly permeable mixed matrix materials comprising ZIF-8 nanoparticles in rubbery amorphous poly(ethylene oxide) for CO ₂ capture. <i>Separation and Purification Technology</i> , 2018, 205, 58-65.	7.9	67
22	Reduced Holey Graphene Oxide Membranes for Desalination with Improved Water Permeance. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 1387-1394.	8.0	64
23	Unexpectedly Strong Size-Sieving Ability in Carbonized Polybenzimidazole for Membrane H ₂ /CO ₂ Separation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 47365-47372.	8.0	63
24	Graphene membranes with tuneable nanochannels by intercalating self-assembled porphyrin molecules for organic solvent nanofiltration. <i>Carbon</i> , 2017, 124, 263-270.	10.3	46
25	Thermally stable, homogeneous blends of cross-linked poly(ethylene oxide) and crown ethers with enhanced CO ₂ permeability. <i>Journal of Membrane Science</i> , 2020, 610, 118253.	8.2	33
26	Facilely Cross-Linking Polybenzimidazole with Polycarboxylic Acids to Improve H ₂ /CO ₂ Separation Performance. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 12521-12530.	8.0	29
27	Scalable Polymeric Few-Nanometer Organosilica Membranes with Hydrothermal Stability for Selective Hydrogen Separation. <i>ACS Nano</i> , 2021, 15, 12119-12128.	14.6	28
28	High-yield production of highly conductive graphene via reversible covalent chemistry. <i>Chemical Communications</i> , 2015, 51, 2806-2809.	4.1	25
29	Interpenetrating networks of mixed matrix materials comprising metal-organic polyhedra for membrane CO ₂ capture. <i>Journal of Membrane Science</i> , 2020, 606, 118122.	8.2	22
30	Engineering Sub-Nanometer Channels in Two-Dimensional Materials for Membrane Gas Separation. <i>Membranes</i> , 2018, 8, 100.	3.0	21
31	Designing organic solvent separation membranes: polymers, porous structures, 2D materials, and their combinations. <i>Materials Advances</i> , 2021, 2, 4574-4603.	5.4	21
32	Etching and acidifying graphene oxide membranes to increase gas permeance while retaining molecular sieving ability. <i>AIChE Journal</i> , 2020, 66, e17022.	3.6	19
33	Thin-film composite membranes based on hyperbranched poly(ethylene oxide) for CO ₂ /N ₂ separation. <i>Journal of Membrane Science</i> , 2022, 644, 120184.	8.2	17
34	Aggregation-Induced Emission for Highly Selective and Sensitive Fluorescent Biosensing and Cell Imaging. <i>Journal of Polymer Science Part A</i> , 2017, 55, 653-659.	2.3	16
35	Facile one-pot synthesis of PdM (M = Ag, Ni, Cu, Y) nanowires for use in mixed matrix membranes for efficient hydrogen separation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12755-12762.	10.3	16
36	“Pottery” of Porous Graphene Materials. <i>Advanced Electronic Materials</i> , 2015, 1, 1500004.	5.1	15

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37	On-Chip Microsupercapacitors Based on Coordination Polymer Frameworks for Alternating Current Line-Filtering. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6381-6383.	13.8	15
38	3D Vertically Aligned CNT/Graphene Hybrids from Layer-by-Layer Transfer for Supercapacitors. <i>Particle and Particle Systems Characterization</i> , 2017, 34, 1700131.	2.3	15
39	Superior CO ₂ /N ₂ separation performance of highly branched Poly(1,3 dioxolane) plasticized by polyethylene glycol. <i>Journal of Membrane Science</i> , 2022, 648, 120352.	8.2	14
40	Engineering hierarchical nanochannels in graphene oxide membranes by etching and polydopamine intercalation for highly efficient dye recovery. <i>Chemical Engineering Journal</i> , 2022, 433, 133593.	12.7	11
41	Effect of Branch Length on the Structural and Separation Properties of Hyperbranched Poly(1,3-dioxolane). <i>Macromolecules</i> , 2022, 55, 382-389.	4.8	7
42	On-Chip-Mikrosuperkondensatoren aus Koordinationspolymeren zur Wechselstromnetzfilterung. <i>Angewandte Chemie</i> , 2017, 129, 6479-6481.	2.0	0
43	Reduced Holey Graphene Oxide Membranes for Desalination with Improved Water Permeance. <i>Journal of Membrane Science</i> , 2019, 12, .	8.2	0