Long Chen

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3118483/publications.pdf

Version: 2024-02-01

103	8,776	76294 40	42364 92
papers	citations	h-index	g-index

106	106	106	13213
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Threeâ€Dimensional Nitrogen and Boron Coâ€doped Graphene for Highâ€Performance Allâ€Solidâ€State Supercapacitors. Advanced Materials, 2012, 24, 5130-5135.	11.1	1,270
2	Large-area high-quality 2D ultrathin Mo2C superconducting crystals. Nature Materials, 2015, 14, 1135-1141.	13.3	1,045
3	Direct observation of the layer-dependent electronic structure in phosphorene. Nature Nanotechnology, 2017, 12, 21-25.	15.6	625
4	Chemical vapor deposition of layered two-dimensional MoSi ₂ N ₄ materials. Science, 2020, 369, 670-674.	6.0	556
5	Highly stable graphene-oxide-based membranes with superior permeability. Nature Communications, 2018, 9, 1486.	5.8	428
6	Scalable Clean Exfoliation of Highâ€Quality Fewâ€Layer Black Phosphorus for a Flexible Lithium Ion Battery. Advanced Materials, 2016, 28, 510-517.	11.1	336
7	One-Step Device Fabrication of Phosphorene and Graphene Interdigital Micro-Supercapacitors with High Energy Density. ACS Nano, 2017, 11, 7284-7292.	7.3	312
8	Phosphorene as a Polysulfide Immobilizer and Catalyst in Highâ€Performance Lithiumâ€“Sulfur Batteries. Advanced Materials, 2017, 29, 1602734.	11.1	289
9	High efficiency and fast van der Waals hetero-photodiodes with a unilateral depletion region. Nature Communications, 2019, 10, 4663.	5.8	213
10	Review of ZnO-based nanomaterials in gas sensors. Solid State Ionics, 2021, 360, 115544.	1.3	211
11	Cotton fabric derived hierarchically porous carbon and nitrogen doping for sustainable capacitor electrode. Carbon, 2017, 111, 839-848.	5.4	140
12	Creation of Bifunctional Materials: Improve Electronâ€Transporting Ability of Light Emitters Based on AIEâ€Active 2,3,4,5â€Tetraphenylsiloles. Advanced Functional Materials, 2014, 24, 3621-3630.	7.8	123
13	Nitrogen and Sulfur Self-Doped Activated Carbon Directly Derived from Elm Flower for High-Performance Supercapacitors. ACS Omega, 2018, 3, 4724-4732.	1.6	122
14	AsP/InSe Van der Waals Tunneling Heterojunctions with Ultrahigh Reverse Rectification Ratio and High Photosensitivity. Advanced Functional Materials, 2019, 29, 1900314.	7.8	121
15	CdPS ₃ nanosheets-based membrane with high proton conductivity enabled by Cd vacancies. Science, 2020, 370, 596-600.	6.0	120
16	Hierarchical macrotube/mesopore carbon decorated with mono-dispersed Ag nanoparticles as a highly active catalyst. Green Chemistry, 2015, 17, 2515-2523.	4.6	114
17	Rational Design of Aggregation-Induced Emission Luminogen with Weak Electron Donorâ€“Acceptor Interaction to Achieve Highly Efficient Undoped Bilayer OLEDs. ACS Applied Materials & Interfaces, 2014, 6, 17215-17225.	4.0	113
18	Strongly Coupled High-Quality Graphene/2D Superconducting Mo₂C Vertical Heterostructures with Aligned Orientation. ACS Nano, 2017, 11, 5906-5914.	7.3	110

#	Article	IF	Citations
19	Bacterial cytoplasmic membranes synergistically enhance the antitumor activity of autologous cancer vaccines. Science Translational Medicine, 2021, 13, .	5.8	109
20	Hierarchical Porous and High Surface Area Tubular Carbon as Dye Adsorbent and Capacitor Electrode. ACS Applied Materials & Interfaces, 2015, 7, 12230-12237.	4.0	106
21	NiPS₃ Nanosheetâ€“Graphene Composites as Highly Efficient Electrocatalysts for Oxygen Evolution Reaction. ACS Nano, 2018, 12, 5297-5305.	7.3	104
22	Multichannel Conductance of Folded Singleâ€Molecule Wires Aided by Throughâ€Space Conjugation. Angewandte Chemie - International Edition, 2015, 54, 4231-4235.	7.2	92
23	Boosting the Potassium-Ion Storage Performance in Soft Carbon Anodes by the Synergistic Effect of Optimized Molten Salt Medium and N/S Dual-Doping. ACS Applied Materials & Interfaces, 2020, 12, 20838-20848.	4.0	88
24	Designed formation of NiCo2O4 with different morphologies self-assembled from nanoparticles for asymmetric supercapacitors and electrocatalysts for oxygen evolution reaction. Electrochimica Acta, 2019, 296, 719-729.	2.6	86
25	Facile synthesis of mesoporous carbon nanocomposites from natural biomass for efficient dye adsorption and selective heavy metal removal. RSC Advances, 2016, 6, 2259-2269.	1.7	74
26	Magnetotransport Properties in High-Quality Ultrathin Two-Dimensional Superconducting Mo₂C Crystals. ACS Nano, 2016, 10, 4504-4510.	7.3	69
27	Non-corrosive green lubricants: strengthened ligninâ€“[choline][amino acid] ionic liquids interaction via reciprocal hydrogen bonding. RSC Advances, 2015, 5, 66067-66072.	1.7	68
28	In-situ reduction of Ag nanoparticles on oxygenated mesoporous carbon fabric: Exceptional catalyst for nitroaromatics reduction. Applied Catalysis B: Environmental, 2016, 182, 306-315.	10.8	68
29	2,5â€Difluorenylâ€Substituted Siloles for the Fabrication of Highâ€Performance Yellow Organic Lightâ€Emitting Diodes. Chemistry - A European Journal, 2014, 20, 1931-1939.	1.7	58
30	Efficient Perovskite Hybrid Solar Cells via Ionomer Interfacial Engineering. Advanced Functional Materials, 2015, 25, 6875-6884.	7.8	57
31	Efficiencies of perovskite hybrid solar cells influenced by film thickness and morphology of CH3NH3PbI3âˆ’xClx layer. Organic Electronics, 2015, 21, 19-26.	1.4	56
32	Green processing of plant biomass into mesoporous carbon as catalyst support. Chemical Engineering Journal, 2016, 295, 301-308.	6.6	55
33	Walnut shell-derived hierarchical porous carbon with high performances for electrocatalytic hydrogen evolution and symmetry supercapacitors. International Journal of Hydrogen Energy, 2020, 45, 443-451.	3.8	55
34	Oxygen vacancies enriched nickel cobalt based nanoflower cathodes: Mechanism and application of the enhanced energy storage. Journal of Energy Chemistry, 2021, 62, 252-261.	7.1	54
35	Three-Dimensional Honeycomb-Like Porous Carbon with Both Interconnected Hierarchical Porosity and Nitrogen Self-Doping from Cotton Seed Husk for Supercapacitor Electrode. Nanomaterials, 2018, 8, 412.	1.9	52
36	ZnFe₂O₄ Nanoparticles for Electrochemical Determination of Trace Hg(II), Pb(II), Cu(II), and Glucose. ACS Applied Nano Materials, 2021, 4, 4026-4036.	2.4	48

#	Article	IF	Citations
37	Superamphiphobicity and electroactivity enabled dual physical/chemical protections in novel anticorrosive nanocomposite coatings. Polymer, 2016, 85, 37-46.	1.8	46
38	Ionic Grease Lubricants: Protic [Triethanolamine][Oleic Acid] and Aprotic [Choline][Oleic Acid]. ACS Applied Materials & Interfaces, 2016, 8, 4977-4984.	4.0	45
39	One-step synthesis of nickelâ€“iron layered double hydroxides with tungstate acid anions via flash nano-precipitation for the oxygen evolution reaction. Sustainable Energy and Fuels, 2019, 3, 237-244.	2.5	45
40	Auâ€“Ag alloy nanoparticles with tunable cavity for plasmon-enhanced photocatalytic H2 evolution. Journal of Energy Chemistry, 2020, 49, 1-7.	7.1	42
41	Fabrication and properties of Mn1.56Co0.96Ni0.48O4 free-standing ultrathin chips. Ceramics International, 2014, 40, 8405-8409.	2.3	41
42	High Fluorescence Efficiencies and Large Stokes Shifts of Folded Fluorophores Consisting of a Pair of Alkenyl-Tethered, Ï€-Stacked Oligo-p-phenylenes. Organic Letters, 2015, 17, 6174-6177.	2.4	40
43	Facile one-step fabrication of CdS_{0.12}Se_{0.88} quantum dots with a ZnSe/ZnS-passivation layer for highly efficient quantum dot sensitized solar cells. Journal of Materials Chemistry A, 2018, 6, 9866-9873.	5.2	38
44	Polyoxometalate intercalated NiFe layered double hydroxides for advanced water oxidation. International Journal of Hydrogen Energy, 2020, 45, 1802-1809.	3.8	37
45	[N-Methyl-2-pyrrolidone][C1â€“C4 carboxylic acid]: a novel solvent system with exceptional lignin solubility. Chemical Communications, 2015, 51, 13554-13557.	2.2	36
46	Enriching Heteroelements in Lignin as Lubricating Additives for Bioionic Liquids. ACS Sustainable Chemistry and Engineering, 2016, 4, 3877-3887.	3.2	36
47	Unlocking the dissolution mechanism of phosphorus anode for lithium-ion batteries. Energy Storage Materials, 2021, 37, 417-423.	9.5	36
48	Paving the Thermal Highway with Self-Organized Nanocrystals in Transparent Polymer Composites. ACS Applied Materials & Interfaces, 2016, 8, 29080-29087.	4.0	35
49	Ultrafast Cr(vi) removal from polluted water by microwave synthesized iron oxide submicron wires. Chemical Communications, 2014, 50, 8036.	2.2	34
50	Tunable nitrogen-doped delaminated 2D MXene obtained by NH3/Ar plasma treatment as highly efficient hydrogen and oxygen evolution reaction electrocatalyst. Chemical Engineering Journal, 2021, 420, 129832.	6.6	30
51	Pore size dependent molecular adsorption of cationic dye in biomass derived hierarchically porous carbon. Journal of Environmental Management, 2017, 196, 168-177.	3.8	29
52	Flocculation-to-adsorption transition of novel salt-responsive polyelectrolyte for recycling of highly polluted saline textile effluents. Chemical Engineering Journal, 2021, 413, 127410.	6.6	29
53	Superhydrophobic polyaniline hollow spheres with mesoporous brain-like convex-fold shell textures. Journal of Materials Chemistry A, 2015, 3, 19299-19303.	5.2	28
54	Metal nanoparticle-directed NiCo2O4 nanostructure growth on carbon nanofibers with high capacitance. Chemical Communications, 2014, 50, 8253.	2.2	27

#	Article	IF	Citations
55	Synthesis and characterization of Mnâ€“Coâ€“Niâ€“O ceramic nanoparticles by reverse microemulsion method. Ceramics International, 2015, 41, 2847-2851.	2.3	27
56	Stitching graphene oxide sheets into a membrane at a liquid/liquid interface. Chemical Communications, 2014, 50, 15944-15947.	2.2	26
57	Amphoteric starch derivatives as reusable flocculant for heavy-metal removal. RSC Advances, 2018, 8, 1274-1280.	1.7	26
58	Synthesis and electrocatalytic mechanism of ultrafine MFe₂O₄ (M: Co, Ni, and) Tj ETQq0 0 0 rgBT /Overlock 1 and hydrogen evolution reaction performances. Journal of Materials Chemistry A, 2021, 9, 22277-22290.	5.2	26
59	Formation of Mnâ€Coâ€Niâ€O Nanoceramic Microspheres Using In Situ Inkâ€Jet Printing: Sintering Process Effect on the Microstructure and Electrical Properties. Small, 2016, 12, 5027-5033.	5.2	24
60	Phase transition and electrical properties of Ni1â^'x Zn x Mn2O4 (0Â‰ÂxÂâ‰Â1.0) NTC ceramics. Journal of Materials Science: Materials in Electronics, 2015, 26, 1374-1380.	1.1	22
61	Effects of preferred orientation on electrical properties of Mn1.56Co0.96Ni0.48O4Â±Î´ spinel films. Materials Letters, 2014, 137, 36-40.	1.3	21
62	Unveiling Mesopore Evolution in Carbonized Wood: Interfacial Separation, Migration, and Degradation of Lignin Phase. ACS Sustainable Chemistry and Engineering, 2015, 3, 2489-2495.	3.2	21
63	Effect of Microbial-Induced Calcite Precipitation on Surface Erosion and Scour of Granular Soils. Transportation Research Record, 2017, 2657, 10-18.	1.0	20
64	pH-responsive chitosan-based flocculant for precise dye flocculation control and the recycling of textile dyeing effluents. RSC Advances, 2018, 8, 39334-39340.	1.7	20
65	Synthesis of Co2â^'xNixO2 (0 < x < 1.0) hexagonal nanostructures as efficient bifunctional electrocatalysts for overall water splitting. Dalton Transactions, 2020, 49, 6587-6595.	1.6	20
66	Grafting heteroelement-rich groups on graphene oxide: Tuning polarity and molecular interaction with bio-ionic liquid for enhanced lubrication. Journal of Colloid and Interface Science, 2017, 498, 47-54.	5.0	19
67	Thermo- and pH-responsive starch derivatives for smart window. Carbohydrate Polymers, 2018, 196, 209-216.	5.1	18
68	Carbon monolith with embedded mesopores and nanoparticles as a novel adsorbent for water treatment. RSC Advances, 2015, 5, 42540-42547.	1.7	17
69	Evaluation of renewable pH-responsive starch-based flocculant on treating and recycling of highly saline textile effluents. Environmental Research, 2021, 201, 111489.	3.7	17
70	Interfaceâ€Strengthened Polyimide/Carbon Nanofibers Nanocomposites with Superior Mechanical and Tribological Properties. Macromolecular Chemistry and Physics, 2014, 215, 1407-1414.	1.1	15
71	Cu-Doped Porous Carbon Derived from Heavy Metal-Contaminated Sewage Sludge for High-Performance Supercapacitor Electrode Materials. Nanomaterials, 2019, 9, 892.	1.9	15
72	Boosting Energy Efficiency of Nickel Cobaltite via Interfacial Engineering in Hierarchical Supercapacitor Electrode. Journal of Physical Chemistry C, 2016, 120, 23377-23388.	1.5	14

#	Article	IF	Citations
73	Bottom-Up Synthesis of 2D Transition Metal Carbides and Nitrides. , 2019, , 89-109.		13
74	Overwhelming electrochemical oxygen reduction reaction of zinc-nitrogen-carbon from biomass resource chitosan via a facile carbon bath method. Chinese Chemical Letters, 2020, 31, 1207-1212.	4.8	13
75	Effect of sintering temperature on microstructure and electrical properties of Mn1.2Co1.5Ni0.3O4 ceramic materials using nanoparticles by reverse microemulsion method. Journal of Materials Science: Materials in Electronics, 2016, 27, 1713-1718.	1.1	12
76	N-doped Carbon Coated CoO Nanowire Arrays Derived from Zeolitic Imidazolate Framework-67 as Binder-free Anodes for High-performance Lithium Storage. Scientific Reports, 2019, 9, 5934.	1.6	12
77	Crystalline-Amorphous Hybrid CoNiO₂ Nanowires with Enhanced Capacity and Energy Density for Aqueous Zinc-Ion Hybrid Supercapacitors. ACS Applied Energy Materials, 2021, 4, 12345-12352.	2.5	11
78	Hybrid-metal hydroxyl fluoride nanosheet arrays as a bifunctional electrocatalyst for efficient overall water splitting. Journal of Materials Chemistry A, 2022, 10, 11774-11783.	5.2	11
79	Flocculant-Assisted Synthesis of Graphene-Like Carbon Nanosheets for Oxygen Reduction Reaction and Supercapacitor. Nanomaterials, 2019, 9, 1135.	1.9	10
80	Hierarchical CoNiO2 polyhedral mesoporous nanoparticles: Hydrothermal microwave carbon bath process synthesis and ultrahigh electrochemical activity for detection of Cu(II). Electrochimica Acta, 2019, 320, 134581.	2.6	9
81	High efficient oxygen reduction performance of Fe/Fe3C nanoparticles in situ encapsulated in nitrogen-doped carbon via a novel microwave-assisted carbon bath method. Nano Materials Science, 2019, 1, 131-136.	3.9	9
82	In Situ Formation of NiAl-Layered Double Hydroxide with a Tunable Interlayer Spacing in a Confined Impinging Jet Microreactor. Energy & Fuels, 2020, 34, 8939-8946.	2.5	9
83	Heterogeneous nucleation/growth of silver nanoparticles onto oxygenated mesoporous carbon: Alcohol effect and catalytic property. Catalysis Communications, 2016, 77, 65-69.	1.6	8
84	Circular Graphene Platelets with Grain Size and Orientation Gradients Grown by Chemical Vapor Deposition. Advanced Materials, 2017, 29, 1605451.	11.1	8
85	Preparation and characterization of LaMn0.5Co0.5O3â€“Ni0.66Mn2.34O4 composite NTC ceramics. Journal of Materials Science: Materials in Electronics, 2016, 27, 7560-7565.	1.1	7
86	Confined molecular motion across liquid/liquid interfaces in a triphasic reaction towards free-standing conductive polymer tube arrays. Journal of Materials Chemistry A, 2016, 4, 6290-6294.	5.2	7
87	Fabrication and thermosensitive characteristics of BaCoO3âˆ’Î´ ceramics for low temperature negative temperature coefficient thermistor. Journal of Materials Science: Materials in Electronics, 2017, 28, 6239-6244.	1.1	7
88	A cellulose dissolution and encapsulation strategy to prepare carbon nanospheres with ultra-small size and high nitrogen content for the oxygen reduction reaction. New Journal of Chemistry, 2020, 44, 10613-10620.	1.4	7
89	Uniformly dispersed Fe3C (~5 nm) in Fe-N-doped carbon nanosheets derived from coal tar pitch as efficient electrocatalysts for oxygen reduction reaction. Materials Letters, 2020, 273, 127861.	1.3	7
90	High performance of Ni_{0.9}Mn_{1.8}Mg_{0.3}O₄ spinel nanoceramic microbeads via inkjet printing and two step sintering. RSC Advances, 2016, 6, 35118-35123.	1.7	6

#	Article	IF	Citations
91	Synthesis and formation mechanism of monodisperse Mn-Co-Ni-O spinel nanocrystallines. Advanced Powder Technology, 2019, 30, 1269-1276.	2.0	6
92	Effect of sintering temperature on thermal stability of Zn0.2Fe1.05NiMn0.75O4 ceramic materials by homogeneous co-precipitation method. Journal of Materials Science: Materials in Electronics, 2017, 28, 190-196.	1.1	5
93	Transport Properties of Topological Semimetal Tungsten Carbide in the 2D Limit. Advanced Electronic Materials, 2019, 5, 1800839.	2.6	5
94	Fast and facile preparation of S nanoparticles by flash nanoprecipitation for lithiumâ€“sulfur batteries. New Journal of Chemistry, 2020, 44, 466-471.	1.4	5
95	Znâ€doped NiCo₂O₄ as Modified Electrode Nanomaterials for Enhanced Electrochemical Detection Performance of Cu(II). Electroanalysis, 2022, 34, 1844-1853.	1.5	5
96	Preparation of mesoporous CoNiO2 hexagonal nanoparticles for asymmetric supercapacitors via a hydrothermal microwave carbon bath process. New Journal of Chemistry, 2019, 43, 15066-15071.	1.4	4
97	N, S Dual-Doped Carbon Derived from Dye Sludge by Using Polymeric Flocculant as Soft Template. Nanomaterials, 2019, 9, 991.	1.9	4
98	Tunable In Situ Stress and Spontaneous Microwrinkling of Multiscale Heterostructures. Journal of Physical Chemistry C, 2019, 123, 26041-26046.	1.5	3
99	Nitrogen self-doped porous carbon nanosheets derived from azo dye flocs for efficient supercapacitor electrodes. Carbon Letters, 2019, 29, 455-460.	3.3	3
100	One-pot synthesis of CoxSy nanomaterials for high-performance supercapacitors. Journal of Materials Science: Materials in Electronics, 2022, 33, 10013-10020.	1.1	1
101	Preparation and characterization of Mn1.2Co0.6Ni1.2O4 NTC ceramic materials by rheological phase reaction method. Journal of Materials Science: Materials in Electronics, 2016, 27, 12649-12653.	1.1	0
102	Molecular Transformation, Diffusion, and Assembling into Three-Dimensional Freestanding Tube Arrays via a Triphasic Reaction. Langmuir, 2016, 32, 11525-11531.	1.6	0
103	Continuous Surface Strain Tuning for NiFe-Layered Double Hydroxides Using a Multi-inlet Vortex Mixer. Industrial & Engineering Chemistry Research, 2020, 59, 19897-19906.	1.8	0