

Jun Song Chen

List of Publications by Year in descending order

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102
papers

17,164
citations

28274

55
h-index

31849

101
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104
all docs

104
docs citations

104
times ranked

16950
citing authors

#	ARTICLE	IF	CITATIONS
1	In-situ construction of Li ₄ Ti ₅ O ₁₂ /rutile TiO ₂ heterostructured nanorods for robust and high-power lithium storage. <i>Nano Research</i> , 2023, 16, 1513-1521.	10.4	11
2	Hierarchical 3D porous carbon with facilely accessible Fe ^{N₄} single-atom sites for Zn ^{air} batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 5925-5929.	10.3	37
3	Activating COOH* intermediate by Ni/Ni ₃ ZnCO ₇ heterostructure in porous N-doped carbon nanofibers for boosting CO ₂ electroreduction. <i>Applied Catalysis B: Environmental</i> , 2022, 302, 120861.	20.2	32
4	Self-Supported Transition Metal-Based Nanoarrays for Efficient Energy Storage. <i>Chemical Record</i> , 2022, 22, e202100294.	5.8	20
5	Fast and stable Na insertion/deinsertion in double-shell hollow MnO nanospheres. <i>Journal of Alloys and Compounds</i> , 2022, 920, 165449.	5.5	2
6	Improving Ni _N X and pyridinic N active sites with space-confined pyrolysis for effective CO ₂ electroreduction. <i>EScience</i> , 2022, 2, 445-452.	41.6	54
7	Regulating the d band in WS ₂ @NC hierarchical nanospheres for efficient lithium polysulfide conversion in lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , 2021, 56, 343-352.	12.9	50
8	Practical strategies for enhanced performance of anode materials in Na ⁺ /K ⁺ -ion batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7317-7335.	10.3	41
9	ZnO/CoS heterostructured nanoflake arrays vertically grown on Ni foam for high-rate supercapacitors. <i>Chemical Communications</i> , 2021, 57, 10520-10523.	4.1	17
10	Realizing Efficient Overall Water Splitting by Tuning the Cobalt Content in Self-Supported Ni x Co y P Microarrays. <i>ChemElectroChem</i> , 2021, 8, 1307-1315.	3.4	5
11	Highly Efficient Na ⁺ Storage in Uniform Thorn Ball-Like MnSe/C Nanospheres. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021, 34, 373-382.	2.9	10
12	Metal-support interactions in designing noble metal-based catalysts for electrochemical CO ₂ reduction: Recent advances and future perspectives. <i>Nano Research</i> , 2021, 14, 3795-3809.	10.4	80
13	Improving the Ionic Conductivity of the LLZO-LZO Thin Film through Indium Doping. <i>Crystals</i> , 2021, 11, 426.	2.2	5
14	Facile Cyclic Voltammetric-Induced Trimetallic Oxides with Shear-Wall Structure Exhibiting Advanced Performance in an Asymmetric Pseudocapacitor. <i>Energy Technology</i> , 2021, 9, 2001136.	3.8	0
15	Self-Supported Sheets-on-Wire CuO@Ni(OH) ₂ /Zn(OH) ₂ Nanoarrays for High-Performance Flexible Quasi-Solid-State Supercapacitor. <i>Processes</i> , 2021, 9, 680.	2.8	21
16	Efficient Stress Dissipation in Well-Aligned Pyramidal SbSn Alloy Nanoarrays for Robust Sodium Storage. <i>Advanced Functional Materials</i> , 2021, 31, 2104798.	14.9	31
17	Superior ionic conduction in LiAlO ₂ thin-film enabled by triply coordinated nitrogen. <i>AIP Advances</i> , 2021, 11, 065310.	1.3	2
18	Facile electrochemical fabrication of magnetic Fe ₃ O ₄ for electrocatalytic synthesis of ammonia used for hydrogen storage application. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 24128-24134.	7.1	14

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19	Bilateral Interfaces in In ₂ Se ₃ -CoIn ₂ -CoSe ₂ Heterostructures for High-Rate Reversible Sodium Storage. ACS Nano, 2021, 15, 13307-13318.	14.6	99
20	Interface engineering of Fe ₃ Se ₄ /FeSe heterostructure encapsulated in electrospun carbon nanofibers for fast and robust sodium storage. Chemical Engineering Journal, 2021, 417, 129279.	12.7	73
21	Introducing Oxygen Vacancies in Li ₄ Ti ₅ O ₁₂ via Hydrogen Reduction for High-Power Lithium-Ion Batteries. Processes, 2021, 9, 1655.	2.8	3
22	Synthesis of noble metal-based intermetallic electrocatalysts by space-confined pyrolysis: Recent progress and future perspective. Journal of Energy Chemistry, 2021, 60, 61-74.	12.9	30
23	Interface engineering for enhancing performance of additive-free NiTe@NiCoSe ₂ core/shell nanostructure for asymmetric supercapacitors. Journal of Power Sources, 2021, 506, 230056.	7.8	36
24	Butanol Promoting High Graphitization in Carbon-Supported Na ₃ V ₂ (PO ₄) ₃ for High-Power Sodium-Ion Battery with Long Life Cycle. ChemElectroChem, 2021, 8, 3538-3543.	3.4	7
25	Reduced energy barrier for Li ⁺ diffusion in LiCoO ₂ via dual doping of Ba and Ga. Journal of Power Sources, 2021, 505, 230067.	7.8	24
26	Achieving efficient electroreduction of CO ₂ to CO in a wide potential window by encapsulating Ni nanoparticles in N-doped carbon nanotubes. Carbon, 2021, 185, 9-16.	10.3	29
27	Encapsulating Co ₉ S ₈ nanocrystals into CNT-reinforced N-doped carbon nanofibers as a chainmail-like electrocatalyst for advanced Li-S batteries with high sulfur loading. Chemical Engineering Journal, 2021, 423, 130246.	12.7	45
28	Hydrogen-Mediated Synthesis of 3D Hierarchical Porous Zinc Catalyst for CO ₂ Electroreduction with High Current Density. Journal of Physical Chemistry C, 2021, 125, 23784-23790.	3.1	12
29	Molten-Salt-Assisted Synthesis of Nitrogen-Doped Carbon Nanosheets Derived from Biomass Waste of Ginkgo Shells as Efficient Catalyst for Oxygen Reduction Reaction. Processes, 2021, 9, 2124.	2.8	3
30	Sei/C Bonding Promoting Fast and Durable Na ⁺ Storage in Yolc-Shell SnSe ₂ @Sei/C. Small, 2020, 16, e2002486.	10.0	97
31	Local confinement and alloy/dealloy activation of Sn-Cu nanoarrays for high-performance lithium-ion battery. Electrochimica Acta, 2020, 336, 135690.	5.2	12
32	Naturally derived honeycomb-like N,S-codoped hierarchical porous carbon with MS ₂ (M =) Tj ETQq 0,0 rgBT /Overlock 10	3.6	76
33	MOF-reinforced Co ₉ S ₈ self-supported nanowire arrays for highly durable and flexible supercapacitor. Electrochimica Acta, 2020, 346, 136201.	5.2	41
34	Self-supported core/shell Co ₃ O ₄ @Ni ₃ S ₂ nanowires for high-performance supercapacitors. Electrochimica Acta, 2019, 311, 221-229.	5.2	49
35	PVP-Assisted Synthesis of Self-Supported Ni ₂ P@Carbon for High-Performance Supercapacitor. Research, 2019, 2019, 8013285.	5.7	11
36	Modeling of solid oxide fuel cells with optimized interconnect designs. International Journal of Heat and Mass Transfer, 2018, 125, 506-514.	4.8	28

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37	Enhancing the lithium storage capabilities of TiO ₂ nanoparticles using delaminated MXene supports. <i>Ceramics International</i> , 2018, 44, 17660-17666.	4.8	20
38	One-pot synthesis of self-supported hierarchical urchin-like Ni ₃ S ₂ with ultrahigh areal pseudocapacitance. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22115-22122.	10.3	44
39	Composition-Dependent Pseudocapacitive Properties of Self-Supported Nickel-Based Nanobelts. <i>Journal of Physical Chemistry C</i> , 2017, 121, 7101-7107.	3.1	20
40	Rational Design of Self-Supported Ni ₃ S ₂ Nanosheets Array for Advanced Asymmetric Supercapacitor with a Superior Energy Density. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 496-504.	8.0	216
41	Sodium-Promoted Growth of Self-Supported Copper Oxides with Comparative Supercapacitive Properties. <i>ChemElectroChem</i> , 2017, 4, 3188-3195.	3.4	14
42	Self-supported phase-pure Ni ₃ S ₂ sheet-on-rod nanoarrays with enhanced pseudocapacitive properties and high energy density. <i>Journal of Power Sources</i> , 2016, 325, 575-583.	7.8	53
43	Stainless Steel Mesh-Supported NiS Nanosheet Array as Highly Efficient Catalyst for Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 5509-5516.	8.0	254
44	A versatile ionic liquid-assisted approach to synthesize hierarchical structures of Ni(OH) ₂ nanosheets for high performance pseudocapacitor. <i>Electrochimica Acta</i> , 2016, 188, 863-870.	5.2	29
45	Distinct optical and magnetic properties of ionic liquid tuned hematite nanocrystals having different exposed (001) facets. <i>RSC Advances</i> , 2014, 4, 593-597.	3.6	10
46	H ₂ O-Assisted Synthesis of Uniform Urchinlike Rutile TiO ₂ with Superior Lithium Storage Properties. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 9998-10003.	8.0	32
47	Growth of two-dimensional ultrathin anatase TiO ₂ nanoplatelets on graphene for high-performance lithium-ion battery. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	10
48	SnO ₂ -Based Nanomaterials: Synthesis and Application in Lithium-Ion Batteries. <i>Small</i> , 2013, 9, 1877-1893.	10.0	729
49	Nanostructured metal oxide-based materials as advanced anodes for lithium-ion batteries. <i>Nanoscale</i> , 2012, 4, 2526.	5.6	1,012
50	Mesoporous Co ₃ O ₄ and CoO@C Topotactically Transformed from Chrysanthemum-like Co(CO ₃) _{0.5} (OH)·0.11H ₂ O and Their Lithium Storage Properties. <i>Advanced Functional Materials</i> , 2012, 22, 861-871.	14.9	554
51	Porosity Co ₃ O ₄ nanowires derived from long Co(CO ₃) _{0.5} (OH)·0.11H ₂ O nanowires with improved supercapacitive properties. <i>Nanoscale</i> , 2012, 4, 2145.	5.6	251
52	Formation of Pt/TiO ₂ /rGO 3-phase junctions with significantly enhanced electro-activity for methanol oxidation. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 473-476.	2.8	67
53	Facile synthesis of hierarchical MoS ₂ microspheres composed of few-layered nanosheets and their lithium storage properties. <i>Nanoscale</i> , 2012, 4, 95-98.	5.6	425
54	SnO ₂ and TiO ₂ nanosheets for lithium-ion batteries. <i>Materials Today</i> , 2012, 15, 246-254.	14.2	162

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55	Highly Efficient Removal of Organic Dyes from Waste Water Using Hierarchical NiO Spheres with High Surface Area. <i>Journal of Physical Chemistry C</i> , 2012, 116, 6873-6878.	3.1	221
56	Synthesis of phase-pure SnO ₂ nanosheets with different organized structures and their lithium storage properties. <i>CrystEngComm</i> , 2012, 14, 5133.	2.6	50
57	The comparative lithium storage properties of urchin-like hematite spheres: hollow vs. solid. <i>Journal of Materials Chemistry</i> , 2012, 22, 9466.	6.7	46
58	Green Synthesis of NiO Nanobelts with Exceptional Pseudo-Capacitive Properties. <i>Advanced Energy Materials</i> , 2012, 2, 1188-1192.	19.5	297
59	Hydrothermal synthesis and electrochemical properties of β -MoO ₃ nanobelts used as cathode materials for Li-ion batteries. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 107, 249-254.	2.3	38
60	Asymmetric anatase TiO ₂ nanocrystals with exposed high-index facets and their excellent lithium storage properties. <i>Nanoscale</i> , 2011, 3, 4082.	5.6	61
61	Silica-based complex nanorattles as multifunctional carrier for anticancer drug. <i>Journal of Materials Chemistry</i> , 2011, 21, 8052.	6.7	42
62	Graphene-wrapped TiO ₂ hollow structures with enhanced lithium storage capabilities. <i>Nanoscale</i> , 2011, 3, 2158.	5.6	223
63	Carbon-supported ultra-thin anatase TiO ₂ nanosheets for fast reversible lithium storage. <i>Journal of Materials Chemistry</i> , 2011, 21, 5687.	6.7	171
64	Formation of SnO ₂ Hollow Nanospheres inside Mesoporous Silica Nanoreactors. <i>Journal of the American Chemical Society</i> , 2011, 133, 21-23.	13.7	391
65	Nitrogen-containing microporous carbon nanospheres with improved capacitive properties. <i>Energy and Environmental Science</i> , 2011, 4, 717-724.	30.8	852
66	SnO ₂ hollow structures and TiO ₂ nanosheets for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2011, 21, 9912.	6.7	327
67	Unusual rutile TiO ₂ nanosheets with exposed (001) facets. <i>Chemical Science</i> , 2011, 2, 2219.	7.4	52
68	Hierarchical nickel sulfide hollow spheres for high performance supercapacitors. <i>RSC Advances</i> , 2011, 1, 397.	3.6	322
69	One-Pot Synthesis of Uniform Fe ₃ O ₄ Nanospheres with Carbon Matrix Support for Improved Lithium Storage Capabilities. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 3276-3279.	8.0	162
70	Controlled synthesis of hierarchical NiO nanosheet hollow spheres with enhanced supercapacitive performance. <i>Journal of Materials Chemistry</i> , 2011, 21, 6602.	6.7	280
71	Synthesis of octahedral Mn ₃ O ₄ crystals and their derived Mn ₃ O ₄ /MnO ₂ heterostructures via oriented growth. <i>CrystEngComm</i> , 2011, 13, 5685.	2.6	52
72	Quasiemulsion-Templated Formation of β -Fe ₂ O ₃ Hollow Spheres with Enhanced Lithium Storage Properties. <i>Journal of the American Chemical Society</i> , 2011, 133, 17146-17148.	13.7	750

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73	Synthesis of SnO ₂ Hierarchical Structures Assembled from Nanosheets and Their Lithium Storage Properties. Journal of Physical Chemistry C, 2011, 115, 24605-24610.	3.1	200
74	SnO ₂ nanosheets grown on graphene sheets with enhanced lithium storage properties. Chemical Communications, 2011, 47, 7155.	4.1	387
75	TiO ₂ hollow spheres with large amount of exposed (001) facets for fast reversible lithium storage. Journal of Materials Chemistry, 2011, 21, 1677-1680.	6.7	182
76	Yolk/shell nanoparticles: new platforms for nanoreactors, drug delivery and lithium-ion batteries. Chemical Communications, 2011, 47, 12578.	4.1	781
77	Glucose-Assisted One-Pot Synthesis of FeOOH Nanorods and Their Transformation to Fe ₃ O ₄ @Carbon Nanorods for Application in Lithium Ion Batteries. Journal of Physical Chemistry C, 2011, 115, 9814-9820.	3.1	295
78	Graphene-supported anatase TiO ₂ nanosheets for fast lithium storage. Chemical Communications, 2011, 47, 5780.	4.1	305
79	Ellipsoidal hollow nanostructures assembled from anatase TiO ₂ nanosheets as a magnetically separable photocatalyst. Chemical Communications, 2011, 47, 2631.	4.1	195
80	Formation of large 2D nanosheets via PVP-assisted assembly of anatase TiO ₂ nanomosaics. Chemical Communications, 2011, 47, 10443.	4.1	72
81	CNTs@SnO ₂ @Carbon Coaxial Nanocables with High Mass Fraction of SnO ₂ for Improved Lithium Storage. Chemistry - an Asian Journal, 2011, 6, 2278-2281.	3.3	58
82	One-Dimensional Hierarchical Structures Composed of Novel Metal Oxide Nanosheets on a Carbon Nanotube Backbone and Their Lithium Storage Properties. Advanced Functional Materials, 2011, 21, 4120-4125.	14.9	256
83	Sandwich-Like, Stacked Ultrathin Titanate Nanosheets for Ultrafast Lithium Storage. Advanced Materials, 2011, 23, 998-1002.	21.0	204
84	Building Hematite Nanostructures by Oriented Attachment. Angewandte Chemie - International Edition, 2011, 50, 650-653.	13.8	91
85	Glucose-Assisted Growth of MoS ₂ Nanosheets on CNT Backbone for Improved Lithium Storage Properties. Chemistry - A European Journal, 2011, 17, 13142-13145.	3.3	334
86	The superior lithium storage capabilities of ultra-fine rutile TiO ₂ nanoparticles. Journal of Power Sources, 2010, 195, 2905-2908.	7.8	110
87	Shape-Controlled Synthesis of Cobalt-based Nanocubes, Nanodiscs, and Nanoflowers and Their Comparative Lithium-Storage Properties. ACS Applied Materials & Interfaces, 2010, 2, 3628-3635.	8.0	177
88	Fast Synthesis of β -MoO ₃ Nanorods with Controlled Aspect Ratios and Their Enhanced Lithium Storage Capabilities. Journal of Physical Chemistry C, 2010, 114, 8675-8678.	3.1	208
89	TiO ₂ and SnO ₂ @TiO ₂ hollow spheres assembled from anatase TiO ₂ nanosheets with enhanced lithium storage properties. Chemical Communications, 2010, 46, 8252.	4.1	181
90	Shape-controlled synthesis of porous Co ₃ O ₄ nanostructures for application in supercapacitors. Journal of Materials Chemistry, 2010, 20, 7015.	6.7	341

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91	One-pot synthesis of uniform carbon-coated MoO ₂ nanospheres for high-rate reversible lithium storage. <i>Chemical Communications</i> , 2010, 46, 6906.	4.1	185
92	Higher charge/discharge rates of lithium-ions across engineered TiO ₂ surfaces leads to enhanced battery performance. <i>Chemical Communications</i> , 2010, 46, 6129.	4.1	216
93	Top-Down Fabrication of γ -Fe ₂ O ₃ Single-Crystal Nanodiscs and Microparticles with Tunable Porosity for Largely Improved Lithium Storage Properties. <i>Journal of the American Chemical Society</i> , 2010, 132, 13162-13164.	13.7	359
94	Porous Spheres Assembled from Polythiophene (PTh)-Coated Ultrathin MnO ₂ Nanosheets with Enhanced Lithium Storage Capabilities. <i>Journal of Physical Chemistry C</i> , 2010, 114, 12048-12051.	3.1	90
95	Constructing Hierarchical Spheres from Large Ultrathin Anatase TiO ₂ Nanosheets with Nearly 100% Exposed (001) Facets for Fast Reversible Lithium Storage. <i>Journal of the American Chemical Society</i> , 2010, 132, 6124-6130.	13.7	1,215
96	Synthesis, Characterization, and Lithium Storage Capability of AMoO ₄ (A = Ni, Co) Nanorods. <i>Chemistry of Materials</i> , 2010, 22, 746-754.	6.7	222
97	Controlled Synthesis of Sb Nanostructures and Their Conversion to CoSb ₃ Nanoparticle Chains for Li-Ion Battery Electrodes. <i>Chemistry of Materials</i> , 2010, 22, 5333-5339.	6.7	69
98	Anatase TiO ₂ nanosheet: An ideal host structure for fast and efficient lithium insertion/extraction. <i>Electrochemistry Communications</i> , 2009, 11, 2332-2335.	4.7	228
99	SnO ₂ Nanoparticles with Controlled Carbon Nanocoating as High-Capacity Anode Materials for Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2009, 113, 20504-20508.	3.1	222
100	One-Pot Synthesis of Carbon-Coated SnO ₂ Nanocolloids with Improved Reversible Lithium Storage Properties. <i>Chemistry of Materials</i> , 2009, 21, 2868-2874.	6.7	421
101	One-pot formation of SnO ₂ hollow nanospheres and γ -Fe ₂ O ₃ @SnO ₂ nanorattles with large void space and their lithium storage properties. <i>Nanoscale</i> , 2009, 1, 280.	5.6	204
102	Atomically dispersed Fe ₃ N ₄ on 3D hierarchical porous carbon for high performance lithium-sulfur battery. <i>Batteries and Supercaps</i> , 0, , .	4.7	2