John Wang

List of Publications by Year
in descending order

589 papers	51,303 citations	1994 101 h-index	1980 206 g-index
597 all docs	597 docs citations	597 times ranked	42077 citing authors

#	Article	IF	Citations
1	Epitaxial BiFeO3 Multiferroic Thin Film Heterostructures. Science, 2003, 299, 1719-1722.	12.6	5,548
2	Pseudocapacitive Contributions to Electrochemical Energy Storage in TiO₂ (Anatase) Nanoparticles. Journal of Physical Chemistry C, 2007, 111, 14925-14931.	3.1	3,863
3	Ordered mesoporous Î±-MoO3 with iso-oriented nanocrystalline walls for thin-film pseudocapacitors. Nature Materials, 2010, 9, 146-151.	27.5	2,801
4	Multiferroic BaTiO3-CoFe2O4 Nanostructures. Science, 2004, 303, 661-663.	12.6	2,051
5	Rational Design of Metalâ€Organic Framework Derived Hollow NiCo₂O₄ Arrays for Flexible Supercapacitor and Electrocatalysis. Advanced Energy Materials, 2017, 7, 1602391.	19.5	874
6	Two dimensional hexagonal boron nitride (2D-hBN): synthesis, properties and applications. Journal of Materials Chemistry C, 2017, 5, 11992-12022.	5.5	732
7	Graphene-based materials for supercapacitor electrodes â€“ A review. Journal of Materiomics, 2016, 2, 37-54.	5.7	620
8	Hollow Mo-doped CoP nanoarrays for efficient overall water splitting. Nano Energy, 2018, 48, 73-80.	16.0	608
9	A Highâ€Rate and Stable Quasiâ€Solidâ€State Zincâ€Ion Battery with Novel 2D Layered Zinc Orthovanadate Array. Advanced Materials, 2018, 30, e1803181.	21.0	571
10	Intrinsically fluorescent carbon dots with tunable emission derived from hydrothermal treatment of glucose in the presence of monopotassium phosphate. Chemical Communications, 2011, 47, 11615.	4.1	529
11	Hafnia and hafnia-toughened ceramics. Journal of Materials Science, 1992, 27, 5397-5430.	3.7	511
12	A Flexible Quasiâ€Solidâ€State Nickelâ€“Zinc Battery with High Energy and Power Densities Based on 3D Electrode Design. Advanced Materials, 2016, 28, 8732-8739.	21.0	479
13	Multiferroic bismuth ferrite-based materials for multifunctional applications: Ceramic bulks, thin films and nanostructures. Progress in Materials Science, 2016, 84, 335-402.	32.8	478
14	Iron Oxide-Decorated Carbon for Supercapacitor Anodes with Ultrahigh Energy Density and Outstanding Cycling Stability. ACS Nano, 2015, 9, 5198-5207.	14.6	441
15	Hollow Co₃O₄ Nanosphere Embedded in Carbon Arrays for Stable and Flexible Solidâ€State Zincâ€“Air Batteries. Advanced Materials, 2017, 29, 1704117.	21.0	407
16	In Situ Grown Epitaxial Heterojunction Exhibits Highâ€Performance Electrocatalytic Water Splitting. Advanced Materials, 2018, 30, e1705516.	21.0	375
17	Zirconia-toughened alumina (ZTA) ceramics. Journal of Materials Science, 1989, 24, 3421-3440.	3.7	372
18	Single Co Atoms Anchored in Porous N-Doped Carbon for Efficient Zincâ”Air Battery Cathodes. ACS Catalysis, 2018, 8, 8961-8969.	11.2	364

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19	Metal Phosphides and Phosphatesâ€based Electrodes for Electrochemical Supercapacitors. Small, 2017, 13, 1701530.	10.0	318
20	Ferroelectricity of CH₃NH₃PbI₃ Perovskite. Journal of Physical Chemistry Letters, 2015, 6, 1155-1161.	4.6	295
21	Copper Single Atoms Anchored in Porous Nitrogen-Doped Carbon as Efficient pH-Universal Catalysts for the Nitrogen Reduction Reaction. ACS Catalysis, 2019, 9, 10166-10173.	11.2	284
22	Cactusâ€Like NiCoP/NiCoâ€OH 3D Architecture with Tunable Composition for Highâ€Performance Electrochemical Capacitors. Advanced Functional Materials, 2018, 28, 1800036.	14.9	274
23	Sulfur-doped cobalt phosphide nanotube arrays for highly stable hybrid supercapacitor. Nano Energy, 2017, 39, 162-171.	16.0	273
24	Highâ€Performance Flexible Solidâ€State Ni/Fe Battery Consisting of Metal Oxides Coated Carbon Cloth/Carbon Nanofiber Electrodes. Advanced Energy Materials, 2016, 6, 1601034.	19.5	262
25	The growth of nickel-manganese and cobalt-manganese layered double hydroxides on reduced graphene oxide for supercapacitor. Electrochimica Acta, 2016, 206, 108-115.	5.2	259
26	Effects of grain size on the dielectric properties and tunabilities of solâ€“gel derived Ba(Zr0.2Ti0.8)O3 ceramics. Solid State Communications, 2004, 131, 163-168.	1.9	252
27	Epitaxial BiFeO3 thin films on Si. Applied Physics Letters, 2004, 85, 2574-2576.	3.3	249
28	Metalâ€“organic framework derived hollow CoS₂ nanotube arrays: an efficient bifunctional electrocatalyst for overall water splitting. Nanoscale Horizons, 2017, 2, 342-348.	8.0	247
29	Decorating Co/CoNx nanoparticles in nitrogen-doped carbon nanoarrays for flexible and rechargeable zinc-air batteries. Energy Storage Materials, 2019, 16, 243-250.	18.0	244
30	MOF-derived nanohybrids for electrocatalysis and energy storage: current status and perspectives. Chemical Communications, 2018, 54, 5268-5288.	4.1	237
31	Perovskites for photovoltaics: a combined review of organicâ€“inorganic halide perovskites and ferroelectric oxide perovskites. Journal of Materials Chemistry A, 2015, 3, 18809-18828.	10.3	232
32	TMD-based highly efficient electrocatalysts developed by combined computational and experimental approaches. Chemical Society Reviews, 2018, 47, 4332-4356.	38.1	232
33	Oxygen-vacancy-related relaxation and scaling behaviors of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Bi</mml:mtext></mml:mrow><mml:mrow><mml:mn>0.9</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Physical Review B, 2010, 82, .	3.2	228
34	Significant Role of Al in Ternary Layered Double Hydroxides for Enhancing Electrochemical Performance of Flexible Asymmetric Supercapacitor. Advanced Functional Materials, 2019, 29, 1903879.	14.9	228
35	Cobalt oxide and N-doped carbon nanosheets derived from a single two-dimensional metalâ€“organic framework precursor and their application in flexible asymmetric supercapacitors. Nanoscale Horizons, 2017, 2, 99-105.	8.0	227
36	Mechanochemical synthesis of nanocrystalline hydroxyapatite from CaO and CaHPO4. Biomaterials, 2001, 22, 2705-2712.	11.4	217

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37	Oneâ€dimensional and twoâ€dimensional synergized nanostructures for highâ€performing energy storage and conversion. InformaÄnÃ-MateriÃ¡ly, 2020, 2, 3-32.	17.3	206
38	Silica-based nanocapsules: synthesis, structure control and biomedical applications. Chemical Society Reviews, 2015, 44, 315-335.	38.1	205
39	Rational Design of Holey 2D Nonlayered Transition Metal Carbide/Nitride Heterostructure Nanosheets for Highly Efficient Water Oxidation. Advanced Energy Materials, 2019, 9, 1803768.	19.5	204
40	Surfaceâ€Chargeâ€Mediated Formation of Hâ€TiO₂@Ni(OH)₂ Heterostructures for Highâ€Performance Supercapacitors. Advanced Materials, 2017, 29, 1604164.	21.0	203
41	(Ni,Co)Se₂/NiCoâ€LDH Core/Shell Structural Electrode with the Cactusâ€Like (Ni,Co)Se₂ Core for Asymmetric Supercapacitors. Small, 2019, 15, e1803895.	10.0	203
42	Hierarchical Microâ€Nano Sheet Arrays of Nickelâ€“Cobalt Double Hydroxides for Highâ€Rate Niâ€“Zn Batteries. Advanced Science, 2019, 6, 1802002.	11.2	202
43	CuO nanowires synthesized by thermal oxidation route. Journal of Alloys and Compounds, 2008, 454, 268-273.	5.5	200
44	Controllable MnCo₂S₄ nanostructures for high performance hybrid supercapacitors. Journal of Materials Chemistry A, 2017, 5, 7494-7506.	10.3	198
45	Efficient Hydrogen Evolution of Oxidized Niâ€N₃ Defective Sites for Alkaline Freshwater and Seawater Electrolysis. Advanced Materials, 2021, 33, e2003846.	21.0	198
46	Composition and poling condition-induced electrical behavior of (Ba0.85Ca0.15)(Ti1â^'xZrx)O3 lead-free piezoelectric ceramics. Journal of the European Ceramic Society, 2012, 32, 891-898.	5.7	197
47	3Dâ€Printed MOFâ€Derived Hierarchically Porous Frameworks for Practical Highâ€Energy Density Liâ€“O₂ Batteries. Advanced Functional Materials, 2019, 29, 1806658.	14.9	197
48	Allâ€Solidâ€State Fiber Supercapacitors with Ultrahigh Volumetric Energy Density and Outstanding Flexibility. Advanced Energy Materials, 2019, 9, 1802753.	19.5	197
49	Synthesis of Fe3O4 nanoparticles from emulsions. Journal of Materials Chemistry, 2001, 11, 1704-1709.	6.7	193
50	Integrated Hierarchical Carbon Flake Arrays with Hollow Pâ€Doped CoSe₂ Nanoclusters as an Advanced Bifunctional Catalyst for Znâ€“Air Batteries. Advanced Functional Materials, 2018, 28, 1804846.	14.9	192
51	Synergizing Mo Single Atoms and Mo₂C Nanoparticles on CNTs Synchronizes Selectivity and Activity of Electrocatalytic N₂ Reduction to Ammonia. Advanced Materials, 2020, 32, e2002177.	21.0	190
52	Stitching of Zn₃(OH)₂V₂O₇Â·2H₂O 2D Nanosheets by 1D Carbon Nanotubes Boosts Ultrahigh Rate for Wearable Quasi-Solid-State Zinc-Ion Batteries. ACS Nano, 2020, 14, 842-853.	14.6	183
53	Ni-Doped Cobaltâ€“Cobalt Nitride Heterostructure Arrays for High-Power Supercapacitors. ACS Energy Letters, 2018, 3, 2462-2469.	17.4	182
54	Ceramic-based membranes for water and wastewater treatment. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 578, 123513.	4.7	179

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55	Bimetallic Nickel Cobalt Sulfide as Efficient Electrocatalyst for Znâ€“Air Battery and Water Splitting. Nano-Micro Letters, 2019, 11, 2.	27.0	179
56	Generation and Dynamics of an Endogenous, Self-Generated Signaling Gradient across a Migrating Tissue. Cell, 2013, 155, 674-687.	28.9	174
57	Potential-Dependent Phase Transition and Mo-Enriched Surface Reconstruction of Î³-CoOOH in a Heterostructured Co-Mo₂C Precatalyst Enable Water Oxidation. ACS Catalysis, 2020, 10, 4411-4419.	11.2	174
58	Improving the magnetic properties of hydrothermally synthesized barium ferrite. Journal of Magnetism and Magnetic Materials, 1999, 195, 452-459.	2.3	172
59	NiFe2O4 ultrafine particles prepared by co-precipitation/mechanical alloying. Journal of Magnetism and Magnetic Materials, 1999, 205, 249-254.	2.3	170
60	Role of room-temperature phase transition in the electrical properties of (Ba, Ca)(Ti, Zr)O3 ceramics. Scripta Materialia, 2011, 65, 771-774.	5.2	170
61	NiFe2O4 nanoparticles formed in situ in silica matrix by mechanical activation. Journal of Applied Physics, 2002, 91, 6015-6020.	2.5	165
62	Fabrication of (NH4)2V3O8 nanoparticles encapsulated in amorphous carbon for high capacity electrodes in aqueous zinc ion batteries. Chemical Engineering Journal, 2020, 382, 122844.	12.7	164
63	Ferroelectric HfO₂-based materials for next-generation ferroelectric memories. Journal of Advanced Dielectrics, 2016, 06, 1630003.	2.4	163
64	Manipulating unidirectional fluid transportation to drive sustainable solar water extraction and brine-drenching induced energy generation. Energy and Environmental Science, 2020, 13, 4891-4902.	30.8	162
65	Heterojunction engineering of MoSe2/MoS2 with electronic modulation towards synergetic hydrogen evolution reaction and supercapacitance performance. Chemical Engineering Journal, 2019, 359, 1419-1426.	12.7	160
66	Intrinsically fluorescent nitrogen-containing carbon nanoparticles synthesized by a hydrothermal process. Carbon, 2011, 49, 5207-5212.	10.3	156
67	Selfâ€Powered Waterâ€Splitting Devices by Coreâ€“Shell NiFe@Nâ€Graphiteâ€Based Znâ€“Air Batteries. Advanced Functional Materials, 2018, 28, 1706928.	14.9	155
68	Mechanochemical Synthesis of Lead Zirconate Titanate from Mixed Oxides. Journal of the American Ceramic Society, 1999, 82, 1687-1692.	3.8	154
69	Nanoframes of Co₃O₄â€“Mo₂N Heterointerfaces Enable Highâ€Performance Bifunctionality toward Both Electrocatalytic HER and OER. Advanced Functional Materials, 2022, 32, 2107382.	14.9	153
70	Synthesis and piezoresponse of highly ordered Pb(Zr0.53Ti0.47)O3 nanowire arrays. Applied Physics Letters, 2004, 85, 4190-4192.	3.3	151
71	Processing of hydroxyapatite via microemulsion and emulsion routes. Biomaterials, 1997, 18, 1433-1439.	11.4	146
72	Flexible Asymmetric Supercapacitor Based on Structureâ€Optimized Mn₃O₄/Reduced Graphene Oxide Nanohybrid Paper with High Energy and Power Density. Advanced Functional Materials, 2015, 25, 7291-7299.	14.9	146

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73	An ultrafine barium ferrite powder of high coercivity from water-in-oil microemulsion. Journal of Magnetism and Magnetic Materials, 1998, 184, 344-354.	2.3	145
74	Transparent nanohybrids of nanocrystalline TiO2 in PMMA with unique nonlinear optical behavior. Journal of Materials Chemistry, 2003, 13, 1475.	6.7	144
75	Controlling the crystallinity and nonlinear optical properties of transparent TiO2â€“PMMA nanohybrids. Journal of Materials Chemistry, 2004, 14, 2978-2987.	6.7	144
76	Ferroelectric and Impedance Behavior of Laâ€•and Tiâ€Codoped BiFeO₃ Thin Films. Journal of the American Ceramic Society, 2010, 93, 2795-2803.	3.8	142
77	BiFeO3 thin films of (1 1 1)-orientation deposited on SrRuO3 buffered Pt/TiO2/SiO2/Si(1 0 0) substrates. Acta Materialia, 2010, 58, 1688-1697.	7.9	141
78	Impedance study of giant dielectric permittivity in BaFe0.5Nb0.5O3 perovskite ceramic. Current Applied Physics, 2010, 10, 21-25.	2.4	141
79	Zn²⁺ Preâ€Intercalation Stabilizes the Tunnel Structure of MnO₂ Nanowires and Enables Zincâ€Ion Hybrid Supercapacitor of Batteryâ€Level Energy Density. Small, 2020, 16, e2000091.	10.0	139
80	Design and Manufacture of 3D-Printed Batteries. Joule, 2021, 5, 89-114.	24.0	137
81	Synthesis of PEOlated Fe₃O₄@SiO₂ Nanoparticles via Bioinspired Silification for Magnetic Resonance Imaging. Advanced Functional Materials, 2010, 20, 722-731.	14.9	132
82	Electrocatalytic reduction of oxygen by a platinum nanoparticle/carbon nanotube composite electrode. Journal of Electroanalytical Chemistry, 2005, 577, 295-302.	3.8	130
83	Effects of nitrogen doping on supercapacitor performance of a mesoporous carbon electrode produced by a hydrothermal soft-templating process. Journal of Materials Chemistry A, 2014, 2, 11753.	10.3	127
84	Ferroelectric and electrical behavior of (Na0.5Bi0.5)TiO3 thin films. Applied Physics Letters, 2004, 85, 804-806.	3.3	126
85	Synergizing in-grown Ni3N/Ni heterostructured core and ultrathin Ni3N surface shell enables self-adaptive surface reconfiguration and efficient oxygen evolution reaction. Nano Energy, 2020, 78, 105355.	16.0	126
86	Freestanding Metalâ€“Organic Frameworks and Their Derivatives: An Emerging Platform for Electrochemical Energy Storage and Conversion. Chemical Reviews, 2022, 122, 10087-10125.	47.7	126
87	CuCo₂S₄ Nanosheets@Nâ€Doped Carbon Nanofibers by Sulfurization at Room Temperature as Bifunctional Electrocatalysts in Flexible Quasiâ€Solidâ€State Znâ€“Air Batteries. Advanced Science, 2019, 6, 1900628.	11.2	123
88	Aqueous Rechargeable Multivalent Metalâ€Ion Batteries: Advances and Challenges. Advanced Energy Materials, 2021, 11, 2100608.	19.5	122
89	Conformal dispersed cobalt nanoparticles in hollow carbon nanotube arrays for flexible Zn-air and Al-air batteries. Chemical Engineering Journal, 2019, 369, 988-995.	12.7	121
90	Porous NiCo2S4/FeOOH nanowire arrays with rich sulfide/hydroxide interfaces enable high OER activity. Nano Energy, 2020, 78, 105230.	16.0	121

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91	In situ coupled amorphous cobalt nitride with nitrogen-doped graphene aerogel as a trifunctional electrocatalyst towards Zn-air battery deriven full water splitting. Applied Catalysis B: Environmental, 2019, 259, 118100.	20.2	120
92	An improvement in processing of hydroxyapatite ceramics. Journal of Materials Science, 1995, 30, 3061-3074.	3.7	117
93	2D carbide nanomeshes and their assembling into 3D microflowers for efficient water splitting. Applied Catalysis B: Environmental, 2019, 243, 678-685.	20.2	116
94	Nurturing the marriages of single atoms with atomic clusters and nanoparticles for better heterogeneous electrocatalysis. , 2022, 1, 51-87.		114
95	Heterogeneous Single Atom Electrocatalysis, Where â€œSinglesâ€• Are â€œMarriedâ€• Advanced Energy Materials, 2020, 10, 1903181.	19.5	113
96	Gold-Cluster Sensors Formed Electrochemically at Boron-Doped-Diamond Electrodes: Detection of Dopamine in the Presence of Ascorbic Acid and Thiols. Advanced Functional Materials, 2005, 15, 639-647.	14.9	110
97	Activation of the MoSe₂ basal plane and Se-edge by B doping for enhanced hydrogen evolution. Journal of Materials Chemistry A, 2018, 6, 510-515.	10.3	110
98	Ultrafast optical nonlinearity in poly(methylmethacrylate)-TiO2 nanocomposites. Applied Physics Letters, 2003, 82, 2691-2693.	3.3	109
99	Control of Synaptic Plasticity Learning of Ferroelectric Tunnel Memristor by Nanoscale Interface Engineering. ACS Applied Materials & Interfaces, 2018, 10, 12862-12869.	8.0	109
100	Effect of dwell time during sintering on piezoelectric properties of (Ba0.85Ca0.15)(Ti0.90Zr0.10)O3 lead-free ceramics. Journal of Alloys and Compounds, 2011, 509, L359-L361.	5.5	107
101	Ferromagnetic, ferroelectric, and fatigue behavior of (111)-oriented BiFeO3/(Bi1/2Na1/2)TiO3 lead-free bilayered thin films. Applied Physics Letters, 2009, 94, .	3.3	106
102	3D-printed electrodes for lithium metal batteries with high areal capacity and high-rate capability. Energy Storage Materials, 2020, 24, 336-342.	18.0	105
103	Hollow Carbon Nanoparticles of Tunable Size and Wall Thickness by Hydrothermal Treatment of Î±-Cyclodextrin Templated by F127 Block Copolymers. Chemistry of Materials, 2013, 25, 704-710.	6.7	103
104	Conformally deposited NiO on a hierarchical carbon support for high-power and durable asymmetric supercapacitors. Journal of Materials Chemistry A, 2015, 3, 23283-23288.	10.3	103
105	Bifunctional Oxygen Electrocatalyst of Mesoporous Ni/NiO Nanosheets for Flexible Rechargeable Znâ€“Air Batteries. Nano-Micro Letters, 2020, 12, 68.	27.0	103
106	Three Dimensionally Free-Formable Graphene Foam with Designed Structures for Energy and Environmental Applications. ACS Nano, 2020, 14, 937-947.	14.6	101
107	All-in-one stretchable coaxial-fiber strain sensor integrated with high-performing supercapacitor. Energy Storage Materials, 2020, 25, 124-130.	18.0	100
108	Synthesizing Nanocrystalline Pb(Zn1/3Nb2/3)O3 Powders from Mixed Oxides. Journal of the American Ceramic Society, 1999, 82, 477-479.	3.8	98

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109	Formation of Nanocrystalline Hydroxyapatite in Nonionic Surfactant Emulsions. Langmuir, 1999, 15, 7472-7477.	3.5	97
110	Processing of fine hydroxyapatite powders via an inverse microemulsion route. Materials Letters, 1996, 28, 431-436.	2.6	96
111	Mutual Ferromagneticâ€“Ferroelectric Coupling in Multiferroic Copperâ€Doped ZnO. Advanced Materials, 2011, 23, 1635-1640.	21.0	96
112	Hybrid Fe₂O₃ Nanoparticle Clusters/rGO Paper as an Effective Negative Electrode for Flexible Supercapacitors. Chemistry of Materials, 2016, 28, 7296-7303.	6.7	95
113	Surface nitridation of nickel-cobalt alloy nanocactoids raises the performance of water oxidation and splitting. Applied Catalysis B: Environmental, 2020, 270, 118889.	20.2	95
114	Orientation dependence of ferroelectric behavior of BiFeO3 thin films. Journal of Applied Physics, 2009, 106, .	2.5	94
115	Manganeseâ€Oxideâ€Based Electrode Materials for Energy Storage Applications: How Close Are We to the Theoretical Capacitance?. Advanced Materials, 2018, 30, e1802569.	21.0	94
116	Recent Progress in Twoâ€Dimensional Layered Double Hydroxides and Their Derivatives for Supercapacitors. ChemSusChem, 2020, 13, 1226-1254.	6.8	94
117	Engineering the Coordination Environment of Single Cobalt Atoms for Efficient Oxygen Reduction and Hydrogen Evolution Reactions. ACS Catalysis, 2021, 11, 4498-4509.	11.2	94
118	Recent Development of Advanced Electrode Materials by Atomic Layer Deposition for Electrochemical Energy Storage. Advanced Science, 2016, 3, 1500405.	11.2	93
119	Cage-confinement pyrolysis route to size-controlled molybdenum-based oxygen electrode catalysts: From isolated atoms to clusters and nanoparticles. Nano Energy, 2020, 67, 104288.	16.0	93
120	Enhanced Photocatalysis by Doping Cerium into Mesoporous Titania Thin Films. Journal of Physical Chemistry C, 2009, 113, 21406-21412.	3.1	92
121	Ferroelectric Transistors with Nanowire Channel: Toward Nonvolatile Memory Applications. ACS Nano, 2009, 3, 700-706.	14.6	89
122	Electrical and magnetic properties of multiferroic BiFeO3/CoFe2O4 heterostructure. Journal of Applied Physics, 2008, 104, .	2.5	88
123	Photovoltaic effect in an indium-tin-oxide/ZnO/BiFeO3/Pt heterostructure. Applied Physics Letters, 2014, 105, .	3.3	85
124	Enlarged Interlayer Spacing in Cobaltâ€“Manganese Layered Double Hydroxide Guiding Transformation to Layered Structure for High Supercapacitance. ACS Applied Materials & Interfaces, 2019, 11, 23236-23243.	8.0	85
125	Z-scheme carbon-bridged Bi2O3/TiO2 nanotube arrays to boost photoelectrochemical detection performance. Applied Catalysis B: Environmental, 2019, 248, 255-263.	20.2	85
126	Atomic layer deposition of Co₃O₄ on carbon nanotubes/carbon cloth for high-capacitance and ultrastable supercapacitor electrode. Nanotechnology, 2015, 26, 094001.	2.6	84

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127	3D Graphene-Nickel Hydroxide Hydrogel Electrode for High-Performance Supercapacitor. Electrochimica Acta, 2016, 196, 653-660.	5.2	83
128	Ultrafine Molybdenum Carbide Nanocrystals Confined in Carbon Foams via a Colloidâ€Confinement Route for Efficient Hydrogen Production. Small Methods, 2018, 2, 1700396.	8.6	83
129	Mechanically Activating Nucleation and Growth of Complex Perovskites. Journal of Solid State Chemistry, 2000, 154, 321-328.	2.9	81
130	Sintering temperature-induced electrical properties of (Ba0.90Ca0.10)(Ti0.85Zr0.15)O3 lead-free ceramics. Materials Research Bulletin, 2012, 47, 1281-1284.	5.2	81
131	Direct observation of room-temperature out-of-plane ferroelectricity and tunneling electroresistance at the two-dimensional limit. Nature Communications, 2018, 9, 3319.	12.8	81
132	NH₄V₃O₈Â·0.5H₂O nanobelts with intercalated water molecules as a high performance zinc ion battery cathode. Materials Chemistry Frontiers, 2020, 4, 1434-1443.	5.9	81
133	Effects of mechanical activation on the sintering and dielectric properties of oxide-derived PZT. Acta Materialia, 1999, 47, 2633-2639.	7.9	80
134	Multiferroic behavior and impedance spectroscopy of bilayered BiFeO3/CoFe2O4 thin films. Journal of Applied Physics, 2009, 105, .	2.5	80
135	2D Metalâ€“Organic Frameworks Derived Nanocarbon Arrays for Substrate Enhancement in Flexible Supercapacitors. Small, 2018, 14, e1702641.	10.0	80
136	3D-Printing of Pure Metalâ€“Organic Framework Monoliths. , 2019, 1, 147-153.		80
137	Strain stabilized nickel hydroxide nanoribbons for efficient water splitting. Energy and Environmental Science, 2020, 13, 229-237.	30.8	78
138	Binder-free 3D printing of covalent organic framework (COF) monoliths for CO2 adsorption. Chemical Engineering Journal, 2021, 403, 126333.	12.7	78
139	Size effect on the ferroelectric phase transition in SrBi2Ta2O9 nanoparticles. Journal of Applied Physics, 2003, 94, 618-620.	2.5	77
140	3D Nanostructure of Carbon Nanotubes Decorated Co 3 O 4 Nanowire Arrays for High Performance Supercapacitor Electrode. Electrochimica Acta, 2015, 163, 9-15.	5.2	77
141	Nanosized hydroxyapatite powders from microemulsions and emulsions stabilized by a biodegradable surfactant. Journal of Materials Chemistry, 1999, 9, 1635-1639.	6.7	75
142	Metalâ€“organic framework-derived integrated nanoarrays for overall water splitting. Journal of Materials Chemistry A, 2018, 6, 9009-9018.	10.3	74
143	Hollow spheres of nanocarbon and their manganese dioxide hybrids derived fromÂsoft template for supercapacitor application. Journal of Power Sources, 2013, 240, 713-720.	7.8	73
144	Activation of sucrose-derived carbon spheres for high-performance supercapacitor electrodes. RSC Advances, 2015, 5, 9307-9313.	3.6	73

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145	Transition-metal-doped NiSe2 nanosheets towards efficient hydrogen evolution reactions. Nano Research, 2018, 11, 6051-6061.	10.4	72
146	Nanoflakes of Niâ€“Co LDH and Bi₂O₃ Assembled in 3D Carbon Fiber Network for High-Performance Aqueous Rechargeable Ni/Bi Battery. ACS Applied Materials & Interfaces, 2017, 9, 26008-26015.	8.0	71
147	Leakage mechanism of cation -modified BiFeO3 thin film. AIP Advances, 2011, 1, .	1.3	70
148	Black Phosphorus@Ti₃C₂T_x MXene Composites with Engineered Chemical Bonds for Commercial-Level Capacitive Energy Storage. ACS Nano, 2021, 15, 12975-12987.	14.6	70
149	Substrate-Assisted Crystallization and Photocatalytic Properties of Mesoporous TiO2 Thin Films. Chemistry of Materials, 2006, 18, 2917-2923.	6.7	69
150	Surfactant-modified chemically reduced graphene oxide for electrochemical supercapacitors. RSC Advances, 2014, 4, 26398-26406.	3.6	69
151	Diblock Copolymer Templated Nanohybrid Thin Films of Highly Ordered TiO2Nanoparticle Arrays in PMMA Matrix. Chemistry of Materials, 2006, 18, 5876-5889.	6.7	68
152	3D TiO2@Ni(OH)2 Core-shell Arrays with Tunable Nanostructure for Hybrid Supercapacitor Application. Scientific Reports, 2015, 5, 13940.	3.3	68
153	Ferroelectric domains and piezoelectricity in monocrystalline Pb(Zr,Ti)O3 nanowires. Applied Physics Letters, 2007, 90, 133107.	3.3	67
154	Flexible supercapacitor of high areal performance with vanadium/cobalt oxides on carbon nanofibers as a binder-free membrane electrode. Chemical Engineering Journal, 2020, 402, 126294.	12.7	67
155	Unravelling V₆O₁₃ Diffusion Pathways via CO₂ Modification for High-Performance Zinc Ion Battery Cathode. ACS Nano, 2021, 15, 1273-1281.	14.6	67
156	Multiferroic BiFeO3 thin films deposited on SrRuO3 buffer layer by rf sputtering. Journal of Applied Physics, 2007, 101, 054104.	2.5	66
157	Photoluminescence and Raman scattering studies on PbTiO3 nanowires fabricated by hydrothermal method at low temperature. Applied Physics Letters, 2006, 88, 193120.	3.3	65
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