Yu Xin Zhang

List of Publications by Year in Descending Order

357 papers	17,378 citations	69 h-index	115 g-index
382 ext. papers	21,053 ext. citations	7.3 avg, IF	7.33 L-index

#	Paper	IF	Citations
357	Transition metal carbonate anodes for Li-ion battery: fundamentals, synthesis and modification. *Journal of Energy Chemistry*, **2022**,	12	0
356	Lightweight, Low-Cost CoSiO@diatomite Core-Shell Composite Material for High-Efficiency Microwave Absorption.. *Molecules*, **2022**, 27,	4.8	2
355	Insights into the role of metal cation substitution on the anionic dye removal performance of CoAl-LDH. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2022**, 636, 128139	5.1	2
354	Structure and diversity of fungal communities in long-term copper-contaminated agricultural soil. *Science of the Total Environment*, **2022**, 806, 151302	10.2	4
353	Optimization of Fe@Ag core□shell nanowires with improved impedance matching and microwave absorption properties. *Chemical Engineering Journal*, **2022**, 430, 132878	14.7	15
352	The toxicity of hexavalent chromium to soil microbial processes concerning soil properties and aging time. *Environmental Research*, **2022**, 204, 111941	7.9	2
351	Functionalized 12□□m Polyethylene Separator to Realize Dendrite-Free Lithium Deposition toward Highly Stable Lithium-Metal Batteries.. *Advanced Science*, **2022**, e2102215	13.6	5
350	Synergistic Coupling of SnS2 Nanosheet Arrays with Ni/Fe Dual Metal and Ru Nanodots via a Cation Exchange Strategy for Overall Water Splitting. *Industrial & Engineering Chemistry Research*, **2022**, 61, 382-391	3.9	2
349	Enhanced Electromagnetic Wave Absorption Properties of Ultrathin MnO Nanosheet-Decorated Spherical Flower-Shaped Carbonyl Iron Powder.. *Molecules*, **2021**, 27,	4.8	3
348	Effects of Additives Containing Cyanopyridine on Electrodeposition of Bright Al Coatings from AlCl3-EMIC Ionic Liquids. *Coatings*, **2021**, 11, 1396	2.9	0
347	ZIFs derived multiphase CoSe2 nanoboxes induced and fixed on CoAl-LDH nanoflowers for high-performance hybrid supercapacitor. *Chemical Engineering Science*, **2021**, 252, 117241	4.4	0
346	2D-3D graphene-coated diatomite as a support toward growing ZnO for advanced photocatalytic degradation of methylene blue.. *RSC Advances*, **2021**, 11, 38505-38514	3.7	3
345	Mirror-like Bright Al-Mn Coatings Electrodeposition from 1-Ethyl-3 Methylimidazolium Chloride-AlCl-MnCl Ionic Liquids with Pyridine Derivatives. *Materials*, **2021**, 14,	3.5	1
344	Active Corrosion Protection of Mg□Al Layered Double Hydroxide for Magnesium Alloys: A Short Review. *Coatings*, **2021**, 11, 1316	2.9	2
343	Enhanced Photocatalytic VOCs Mineralization via Special Ga-O-H Charge Transfer Channel in □Ga2O3/MgAl-LDH Heterojunction. *ACS ES&T Engineering*, **2021**, 1, 501-511		8
342	Unveiling the Role of Atomically Dispersed Active Sites over Amorphous Iron Oxide Supported Pt Catalysts for Complete Catalytic Ozonation of Toluene at Low Temperature. *Industrial & Engineering Chemistry Research*, **2021**, 60, 3881-3892	3.9	0
341	Graphene Oxide Enabled Flexible PEO-Based Solid Polymer Electrolyte for All-Solid-State Lithium Metal Battery. *ACS Applied Energy Materials*, **2021**, 4, 3660-3669	6.1	21

340	Multifunctional Ionic Skin with Sensing, UV-Filtering, Water-Retaining, and Anti-Freezing Capabilities. *Advanced Functional Materials*, **2021**, 31, 2011176	15.6	58
339	One-pot fabrication of N, S co-doped carbon with 3D hierarchically porous frameworks and high electron/ion transfer rate for lithium-ion batteries. *Chemical Engineering Science*, **2021**, 234, 116453	4.4	6
338	Montmorillonite-Based Two-Dimensional Nanocomposites: Preparation and Applications. *Molecules* , **2021**, 26,	4.8	5
337	Au/Metal□Organic Framework Nanocapsules for Electrochemical Determination of Glutathione. *ACS Applied Nano Materials*, **2021**, 4, 4853-4862	5.6	14
336	Electrostatic adsorbing graphene quantum dot into nickel□based layered double hydroxides: Electron absorption/donor effects enhanced oxygen electrocatalytic activity. *Nano Energy*, **2021**, 84, 105932	17.1	31
335	The pseudocapacitance mechanism of graphene/CoAl LDH and its derivatives: Are all the modifications beneficial?. *Journal of Energy Chemistry*, **2021**, 52, 218-227	12	51
334	The role of morphological changes in algae adaptation to nutrient stress at the single-cell level. *Science of the Total Environment*, **2021**, 754, 142076	10.2	4
333	P-doped cobalt carbonate hydroxide@NiMoO double-shelled hierarchical nanoarrays anchored on nickel foam as a bi-functional electrode for energy storage and conversion. *Journal of Colloid and Interface Science*, **2021**, 587, 855-863	9.3	16
332	Heterojunction interface of zinc oxide and zinc sulfide promoting reactive molecules activation and carrier separation toward efficient photocatalysis. *Journal of Colloid and Interface Science*, **2021**, 588, 826-837	9.3	10
331	3D X-ray micro-computed tomography imaging for the microarchitecture evaluation of porous metallic implants and scaffolds. *Micron*, **2021**, 142, 102994	2.3	2
330	Origin of the electrocatalytic oxygen evolution activity of nickel phosphides: in-situ electrochemical oxidation and Cr doping to achieve high performance. *Science Bulletin*, **2021**, 66, 708-719	10.6	21
329	Motivated surface reaction thermodynamics on the bismuth oxyhalides with lattice strain for enhanced photocatalytic NO oxidation. *Applied Catalysis B: Environmental*, **2021**, 284, 119694	21.8	8
328	Structural evolution and sulfuration of nickel cobalt hydroxides from 2D to 1D on 3D diatomite for supercapacitors. *CrystEngComm*, **2021**, 23, 5636-5644	3.3	2
327	Surface Lattice Oxygen Activation on SrSbO Enhances the Photocatalytic Mineralization of Toluene: from Reactant Activation, Intermediate Conversion to Product Desorption. *ACS Applied Materials & Interfaces*, **2021**, 13, 5153-5164	9.5	9
326	Phoenix Tree Leaves□Derived Biomass Carbons for Sodium-Ion Batteries **2021**, 135-146		
325	Tuning parallel manganese dioxide to hollow parallel hydroxyl oxidize iron replicas for high-performance asymmetric supercapacitors. *Journal of Colloid and Interface Science*, **2021**, 594, 812-823	9.3	53
324	Plasma-Induced Defect Engineering and Cation Refilling of NiMoO Parallel Arrays for Overall Water Splitting. *ACS Applied Materials & Interfaces*, **2021**, 13, 41545-41554	9.5	9
323	A route for large-scale preparation of multifunctional superhydrophobic coating with electrochemically-modified kaolin for efficient corrosion protection of magnesium alloys. *Journal of Magnesium and Alloys*, **2021**,	8.8	2

322	Interfacial engineered Fe2O3@FeP nanorod arrays as capacitive storage dominated and high charge transfer anode for high-rate lithium-ion batteries. *Surface and Coatings Technology*, **2021**, 421, 127471	4.4	1
321	Ni-decorated Fe-/N- co-doped carbon anchored on porous cobalt oxide nanowires arrays for efficient electrocatalytic oxygen evolution. *Chemical Engineering Science*, **2021**, 243, 116774	4.4	7
320	A multidimensional rational design of nickel-iron sulfide and carbon nanotubes on diatomite via synergistic modulation strategy for supercapacitors. *Journal of Colloid and Interface Science*, **2021**, 603, 799-809	9.3	39
319	The design of Co3S4@MXene heterostructure as sulfur host to promote the electrochemical kinetics for reversible magnesium-sulfur batteries. *Journal of Magnesium and Alloys*, **2021**, 9, 78-89	8.8	20
318	Engineering lithiophilic Ni-Al@LDH interlayers on a garnet-type electrolyte for solid-state lithium metal batteries. *Chemical Communications*, **2021**, 57, 10214-10217	5.8	0
317	A triple-layered PPy@NiCo LDH/FeCo2O4 hybrid crystalline structure with high electron conductivity and abundant interfaces for supercapacitors and oxygen evolution. *CrystEngComm*, **2021**, 23, 2262-2268	3.3	3
316	Graphene/Graphitized Polydopamine/Carbon Nanotube All-Carbon Ternary Composite Films with Improved Mechanical Properties and Through-Plane Thermal Conductivity. *ACS Applied Materials & Interfaces*, **2020**, 12, 57391-57400	9.5	14
315	Ultra-small MnCo2O4 nanocrystals decorated on nitrogen-enriched carbon nanofibers as oxygen cathode for Li-O2 batteries. *Functional Materials Letters*, **2020**, 13, 2051035	1.2	3
314	Biotemplate Synthesis of Fe3O4/Polyaniline for Supercapacitor. *Journal of Energy Storage*, **2020**, 30, 101554	7.8	9
313	A novel high-sensitivity non-enzymatic glucose sensor via Cu2O@CuO@NiCo2O4 nanowires as catalyst. *Materials Letters*, **2020**, 272, 127850	3.3	14
312	Electron buffer formation through coupling thiosulfate-dependent denitratation with anammox in a single-stage sequencing batch reactor. *Bioresource Technology*, **2020**, 312, 123560	11	9
311	Core□Shell Structured Magnetic □Fe2O3@PANI Nanocomposites for Enhanced As(V) Adsorption. *Industrial & Engineering Chemistry Research*, **2020**, 59, 7554-7563	3.9	25
310	Fine-scale variation of a keystone interaction: aphid-tending ants show stronger anti-herbivory effects on small leaves. *Arthropod-Plant Interactions*, **2020**, 14, 357-361	2.2	0
309	Interfacial activation of reactants and intermediates on CaSO4 insulator-based heterostructure for efficient photocatalytic NO removal. *Chemical Engineering Journal*, **2020**, 390, 124609	14.7	26
308	Flexible electrochemical energy storage: The role of composite materials. *Composites Science and Technology*, **2020**, 192, 108102	8.6	52
307	Design of Nb2O5/graphene hybrid aerogel as polymer binder-free electrodes for lithium-ion capacitors. *Materials Technology*, **2020**, 35, 625-634	2.1	11
306	Facile constructing ZnO/ZnCO3 heterojunction for high-performance photocatalytic NO oxidation and reaction pathway study. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 4527-4534	2.1	2
305	LLZO@EmimFSI@PEO derived hybrid solid electrolyte for high-energy lithium metal batteries. *Materials Technology*, **2020**, 35, 618-624	2.1	6

304	Active corrosion protection of super-hydrophobic corrosion inhibitor intercalated MgAl layered double hydroxide coating on AZ31 magnesium alloy. *Journal of Magnesium and Alloys*, **2020**, 8, 291-300	8.8	52
303	Simultaneous Removal of Phenol and Pb2+ from the Mixed Solution by Zwitterionic Poly(sulfobetaine methacrylate)-Grafted Poly(vinylbenzyl chloride) Microspheres. *Industrial & Engineering Chemistry Research*, **2020**, 59, 6065-6077	3.9	9
302	Melamine sponge derived porous carbon monoliths with NiMn oxides for high performance supercapacitor. *Chinese Chemical Letters*, **2020**, 31, 2245-2248	8.1	5
301	High-rate asymmetrical supercapacitors based on cobalt-doped birnessite nanotubes and Mn-FeOOH nanotubes. *Chemical Communications*, **2020**, 56, 3257-3260	5.8	8
300	New insights into filamentous sludge bulking: The potential role of extracellular polymeric substances in sludge bulking in the activated sludge process. *Chemosphere*, **2020**, 248, 126012	8.4	14
299	Temporal delay estimation of sparse direct visual inertial odometry for mobile robots. *Journal of the Franklin Institute*, **2020**, 357, 3893-3906	4	2
298	Low temperature and fast response hydrogen gas sensor with Pd coated SnO2 nanofiber rods. *International Journal of Hydrogen Energy*, **2020**, 45, 7234-7242	6.7	43
297	Synthesis of porous NiCoS nanosheets with Al leaching on ordered mesoporous carbon for high-performance supercapacitors. *Chemical Engineering Journal*, **2020**, 384, 123367	14.7	62
296	In-situ fabricating MnO2 and its derived FeOOH nanostructures on mesoporous carbon towards high-performance asymmetric supercapacitor. *Applied Surface Science*, **2020**, 503, 144123	6.7	18
295	On-chip 3D interdigital micro-supercapacitors with ultrahigh areal energy density. *Energy Storage Materials*, **2020**, 27, 17-24	19.4	30
294	Construction of advanced 3D Co3S4@PPy nanowire anchored on nickel foam for high-performance electrochemical energy storage. *Electrochimica Acta*, **2020**, 334, 135635	6.7	9
293	Birnessite based nanostructures for supercapacitors: challenges, strategies and prospects. *Nanoscale Advances*, **2020**, 2, 37-54	5.1	29
292	Controllable crystal growth of a NiCo-LDH nanostructure anchored onto KCu7S4 nanowires via a facile solvothermal method for supercapacitor application. *CrystEngComm*, **2020**, 22, 1602-1609	3.3	10
291	An atomic insight into BiOBr/La2Ti2O7 p heterojunctions: interfacial charge transfer pathway and photocatalysis mechanism. *Catalysis Science and Technology*, **2020**, 10, 826-834	5.5	15
290	Optimizing the rate capability of nickel cobalt phosphide nanowires on graphene oxide by the outer/inter-component synergistic effects. *Journal of Materials Chemistry A*, **2020**, 8, 1697-1708	13	88
289	Bi metal prevents the deactivation of oxygen vacancies in Bi2O2CO3 for stable and efficient photocatalytic NO abatement. *Applied Catalysis B: Environmental*, **2020**, 264, 118545	21.8	102
288	Synthesis of eosin modified TiO2 film with co-exposed {001} and {101} facets for photocatalytic degradation of para-aminobenzoic acid and solar H2 production. *Applied Catalysis B: Environmental*, **2020**, 265, 118557	21.8	61
287	Facile construction of Bi2Mo3O12@Bi2O2CO3 heterojunctions for enhanced photocatalytic efficiency toward NO removal and study of the conversion process. *Chinese Journal of Catalysis*, **2020**, 41, 268-275	11.3	23

286	The Role of Mineral Acid Doping of PEDOT:PSS and Its Application in Organic Photovoltaics. *Advanced Electronic Materials*, **2020**, 6, 1900648	6.4	23
285	Supercapacitor nanomaterials **2020**, 295-324		6
284	Controllable synthesis of a 3D ZnS@MoO3 heterojunction via a hydrothermal method towards efficient NO purification under visible light. *CrystEngComm*, **2020**, 22, 257-266	3.3	5
283	OH/Na co-functionalized carbon nitride: directional charge transfer and enhanced photocatalytic oxidation ability. *Catalysis Science and Technology*, **2020**, 10, 529-535	5.5	6
282	Manganese dioxide anchored on hierarchical carbon nanotubes/graphene/diatomite conductive architecture for high performance asymmetric supercapacitor. *Applied Surface Science*, **2020**, 508, 144777	6.7	12
281	Hierarchical Co-doped SnS2@Ni(OH)2 double-shell crystalline structure on carbon cloth with gradient pore distribution for superior capacitance. *CrystEngComm*, **2020**, 22, 5067-5072	3.3	5
280	MnO2-directed synthesis of NiFe-LDH@FeOOH nanosheeet arrays for supercapacitor negative electrode. *Chinese Chemical Letters*, **2020**, 31, 2343-2346	8.1	6
279	Hydroxyapatite Nanowire-Reinforced Poly(ethylene oxide)-Based Polymer Solid Electrolyte for Application in High-Temperature Lithium Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 54637-54643	9.5	21
278	Chemical Modifications of Layered Double Hydroxides in the Supercapacitor. *Energy and Environmental Materials*, **2020**, 3, 346-379	13	55
277	Pores enriched CoNiO2 nanosheets on graphene hollow fibers for high performance supercapacitor-battery hybrid energy storage. *Electrochimica Acta*, **2020**, 358, 136857	6.7	6
276	Hydrogen peroxide sensing in body fluids and tumor cells via in situ produced redox couples on two-dimensional holey CuCoO nanosheets. *Mikrochimica Acta*, **2020**, 187, 469	5.8	15
275	Ru Single Atoms on N-Doped Carbon by Spatial Confinement and Ionic Substitution Strategies for High-Performance Li-O Batteries. *Journal of the American Chemical Society*, **2020**, 142, 16776-16786	16.4	116
274	Non-selective synthesis and controllable transformation of parallel MnO2 with hydrogen ions. *CrystEngComm*, **2020**, 22, 6101-6105	3.3	3
273	Neatly arranged mesoporous MnO nanotubes with oxygen vacancies for electrochemical energy storage. *Dalton Transactions*, **2020**, 49, 17552-17558	4.3	7
272	Inhibition of the toxic byproduct during photocatalytic NO oxidation via La doping in ZnO. *Chinese Chemical Letters*, **2020**, 31, 751-754	8.1	18
271	MnO2@NiO nanosheets@nanowires hierarchical structures with enhanced supercapacitive properties. *Journal of Materials Science*, **2020**, 55, 2482-2491	4.3	22
270	Morphologically confined hybridization of tiny CoNi2S4 nanosheets into S, P co-doped graphene leading to enhanced pseudocapacitance and rate capability. *Chemical Engineering Journal*, **2020**, 379, 122305	14.7	114
269	Unraveling the mechanism of binary channel reactions in photocatalytic formaldehyde decomposition for promoted mineralization. *Applied Catalysis B: Environmental*, **2020**, 260, 118130	21.8	75

268	The importance of intermediates ring-opening in preventing photocatalyst deactivation during toluene decomposition. *Applied Catalysis B: Environmental*, **2020**, 272, 118977	21.8	46
267	Current Diatom Research in China **2019**, 43-98		1
266	Magnetically Controllable Liquid Metal Marbles. *Advanced Materials Interfaces*, **2019**, 6, 1901057	4.6	24
265	Growth of cobalt-aluminum layered double hydroxide nanosheets on graphene oxide towards high performance supercapacitors: The important role of layer structure. *Applied Surface Science*, **2019**, 496, 143700	6.7	48
264	One-step hydrothermal synthesis of Cu-doped MnO coated diatomite for degradation of methylene blue in Fenton-like system. *Journal of Colloid and Interface Science*, **2019**, 556, 466-475	9.3	16
263	Carbonate doped BiMoO hierarchical nanostructure with enhanced transformation of active radicals for efficient photocatalytic removal of NO. *Journal of Colloid and Interface Science*, **2019**, 557, 816-824	9.3	14
262	Facet-dependent photocatalytic NO conversion pathways predetermined by adsorption activation patterns. *Nanoscale*, **2019**, 11, 2366-2373	7.7	36
261	Morphology-controlled synthesis of CoMoO nanoarchitectures anchored on carbon cloth for high-efficiency oxygen oxidation reaction.. *RSC Advances*, **2019**, 9, 1562-1569	3.7	21
260	2D-2D growth of NiFe LDH nanoflakes on montmorillonite for cationic and anionic dye adsorption performance. *Journal of Colloid and Interface Science*, **2019**, 540, 398-409	9.3	68
259	Crystal structure of nickel manganese-layered double hydroxide@cobaltosic oxides on nickel foam towards high-performance supercapacitors. *CrystEngComm*, **2019**, 21, 470-477	3.3	56
258	Tuning the Bifunctional Oxygen Electrocatalytic Properties of Core-Shell CoO@NiFe LDH Catalysts for Zn-Air Batteries: Effects of Interfacial Cation Valences. *ACS Applied Materials & Interfaces*, **2019**, 11, 21506-21514	9.5	71
257	Synergistic integration of metallic Bi and defects on BiOI: Enhanced photocatalytic NO removal and conversion pathway. *Chinese Journal of Catalysis*, **2019**, 40, 826-836	11.3	46
256	Fabrication of corrosion-resistant superhydrophobic coating on magnesium alloy by one-step electrodeposition method. *Journal of Magnesium and Alloys*, **2019**, 7, 193-202	8.8	64
255	Low Carbonate Contaminative and Ultrasmall NiAl LDH Prepared by Acid Salt Treatment with High Adsorption Capacity of Methyl Orange. *Industrial & Engineering Chemistry Research*, **2019**, 58, 11985-11998	3.9	19
254	MnO2 nanorods/MXene/CC composite electrode for flexible supercapacitors with enhanced electrochemical performance. *Journal of Alloys and Compounds*, **2019**, 802, 259-268	5.7	58
253	Pivotal roles of artificial oxygen vacancies in enhancing photocatalytic activity and selectivity on Bi2O2CO3 nanosheets. *Chinese Journal of Catalysis*, **2019**, 40, 620-630	11.3	48
252	Carbonate-intercalated defective bismuth tungstate for efficiently photocatalytic NO removal and promotion mechanism study. *Applied Catalysis B: Environmental*, **2019**, 254, 206-213	21.8	33
251	Corrosion resistance of fatty acid and fluoroalkylsilane-modified hydrophobic Mg-Al LDH films on anodized magnesium alloy. *Applied Surface Science*, **2019**, 487, 569-580	6.7	52

250	Improving ionic/electronic conductivity of MoS2 Li-ion anode via manganese doping and structural optimization. *Chemical Engineering Journal*, **2019**, 372, 665-672	14.7	22
249	High-surface energy enables efficient and stable photocatalytic toluene degradation via the suppression of intermediate byproducts. *Catalysis Science and Technology*, **2019**, 9, 2952-2959	5.5	13
248	Promoting ring-opening efficiency for suppressing toxic intermediates during photocatalytic toluene degradation via surface oxygen vacancies. *Science Bulletin*, **2019**, 64, 669-678	10.6	90
247	Design and fabrication of hydrotalcite-like ternary NiMgAl layered double hydroxide nanosheets as battery-type electrodes for high-performance supercapacitors.. *RSC Advances*, **2019**, 9, 9604-9612	3.7	14
246	Tuning MnO2 to FeOOH replicas with bio-template 3D morphology as electrodes for high performance asymmetric supercapacitors. *Chemical Engineering Journal*, **2019**, 370, 136-147	14.7	119
245	Freeze-drying induced self-assembly approach for scalable constructing MoS/graphene hybrid aerogels for lithium-ion batteries. *Journal of Colloid and Interface Science*, **2019**, 544, 37-45	9.3	19
244	Deposition of thin □MnO2 functional layers on carbon foam/sulfur composites for synergistically inhibiting polysulfides shuttling and increasing sulfur utilization. *Electrochimica Acta*, **2019**, 305, 247-255	6.7	9
243	Reactant activation and photocatalysis mechanisms on Bi-metal@Bi2GeO5 with oxygen vacancies: A combined experimental and theoretical investigation. *Chemical Engineering Journal*, **2019**, 370, 1366-1375	14.7	103
242	Acid-salt treated CoAl layered double hydroxide nanosheets with enhanced adsorption capacity of methyl orange dye. *Journal of Colloid and Interface Science*, **2019**, 548, 100-109	9.3	46
241	Achieving high energy density in a 4.5 V all nitrogen-doped graphene based lithium-ion capacitor. *Journal of Materials Chemistry A*, **2019**, 7, 19909-19921	13	49
240	Rational Design of Layered SnS on Ultralight Graphene Fiber Fabrics as Binder-Free Anodes for Enhanced Practical Capacity of Sodium-Ion Batteries. *Nano-Micro Letters*, **2019**, 11, 66	19.5	35
239	Phase and morphology controlled polymorphic MnO2 nanostructures for electrochemical energy storage. *CrystEngComm*, **2019**, 21, 5322-5331	3.3	20
238	Phase and morphology evolution of CoAl LDH nanosheets towards advanced supercapacitor applications. *CrystEngComm*, **2019**, 21, 4934-4942	3.3	55
237	Tuning the reaction pathway of photocatalytic NO oxidation process to control the secondary pollution on monodisperse Au nanoparticles@g-C3N4. *Chemical Engineering Journal*, **2019**, 378, 122184	14.7	42
236	Fabrication of CuO nanosheets-built microtubes via Kirkendall effect for non-enzymatic glucose sensor. *Applied Surface Science*, **2019**, 494, 484-491	6.7	43
235	Morphology and crystallinity-controlled synthesis of etched CoAl LDO/MnO2 hybrid nanoarrays towards high performance supercapacitors. *Journal of Alloys and Compounds*, **2019**, 806, 917-925	5.7	22
234	P-Doped NiMoO4 parallel arrays anchored on cobalt carbonate hydroxide with oxygen vacancies and mass transfer channels for supercapacitors and oxygen evolution. *Journal of Materials Chemistry A*, **2019**, 7, 19589-19596	13	40
233	Morphological evolution process of □MnO2 from 2-D to 1-D without phase transition. *CrystEngComm*, **2019**, 21, 4593-4598	3.3	8

232	A general strategy for in-situ fabrication of uniform carbon nanotubes on three-dimensional carbon architectures for electrochemical application. *Applied Surface Science*, **2019**, 496, 143704	6.7	9
231	Constructing defective (BiO)2CO3 with different dominated facets for efficiently photocatalytic NO oxidization and in situ reaction pathway study. *Applied Surface Science*, **2019**, 498, 143848	6.7	6
230	Rapid oxidation-etching synthesis of low-crystalline □MnO tubular nanostructures under ambient with high capacitance. *Journal of Colloid and Interface Science*, **2019**, 557, 168-173	9.3	3
229	Impact of Migrant Workers on Total Factor Productivity in Chinese Construction Industry. *Sustainability*, **2019**, 11, 926	3.6	9
228	Biotemplate derived three dimensional nitrogen doped graphene@MnO as bifunctional material for supercapacitor and oxygen reduction reaction catalyst. *Journal of Colloid and Interface Science*, **2019**, 544, 155-163	9.3	49
227	Graphene oxide mediated co-generation of C-doping and oxygen defects in BiWO nanosheets: a combined DRIFTS and DFT investigation. *Nanoscale*, **2019**, 11, 20562-20570	7.7	24
226	Core-shell (nano-SnX/nano-LiTiO)@C spheres (X = Se,Te) with high volumetric capacity and excellent cycle stability for lithium-ion batteries. *Nanoscale*, **2019**, 11, 23268-23274	7.7	13
225	Light-Induced Generation and Regeneration of Oxygen Vacancies in BiSbO for Sustainable Visible Light Photocatalysis. *ACS Applied Materials & Interfaces*, **2019**, 11, 47984-47991	9.5	36
224	Assembling a double shell on a diatomite skeleton ternary complex with conductive polypyrrole for the enhancement of supercapacitors. *Chemical Communications*, **2019**, 55, 13773-13776	5.8	86
223	Synthesis of Bi2WO6 with gradient oxygen vacancies for highly photocatalytic NO oxidation and mechanism study. *Chemical Engineering Journal*, **2019**, 361, 129-138	14.7	145
222	Low-Charge-Carrier-Scattering Three-Dimensional □MnO2/□MnO2 Networks for Ultra-High-Rate Asymmetrical Supercapacitors. *ACS Applied Energy Materials*, **2019**, 2, 1051-1059	6.1	23
221	Facile Fabrication of NiCo□□@g-C□□(C) Hybrids for High-Performance Supercapacitors. *Journal of Nanoscience and Nanotechnology*, **2019**, 19, 73-80	1.3	10
220	Engineering hydrogenated manganese dioxide nanostructures for high-performance supercapacitors. *Journal of Colloid and Interface Science*, **2019**, 537, 661-670	9.3	7
219	MgAl layered double oxide: One powerful sweeper of emulsified water and acid for oil purification. *Journal of Hazardous Materials*, **2019**, 367, 658-667	12.8	20
218	Direct Imaging of Isolated Single-Molecule Magnets in Metal-Organic Frameworks. *Journal of the American Chemical Society*, **2019**, 141, 2997-3005	16.4	48
217	Magnetic nickel chrysotile nanotubes tethered with pH-sensitive poly(methacrylic acid) brushes for Cu(II) adsorption. *Journal of Molecular Liquids*, **2019**, 276, 611-623	6	13
216	Uniform growth of NiCo2S4 nanoflakes arrays on nickel foam for binder-free high-performance supercapacitors. *Journal of Materials Science*, **2019**, 54, 4821-4830	4.3	21
215	Preparation of Porous [email□protected]3O4 and Its Application in the Oxygen Reduction Reaction and Supercapacitor. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 831-837	8.3	46

214	Facile Synthesis of Manganese Cobalt Oxide/Nickel Cobalt Oxide Composites for High-Performance Supercapacitors. *Frontiers in Chemistry*, **2018**, 6, 661	5	18
213	Nanocarbon-Based Electrocatalysts for Rechargeable Aqueous Li/Zn-Air Batteries. *ChemElectroChem*, **2018**, 5, 1745-1763	4.3	20
212	PPy@NiCo2S4 nanosheets anchored on graphite foam with bicontinuous conductive network for high-areal capacitance and high-rate electrodes. *Journal of Alloys and Compounds*, **2018**, 747, 276-282	5.7	23
211	Highly enhanced visible-light photocatalytic NO x purification and conversion pathway on self-structurally modified g-C 3 N 4 nanosheets. *Science Bulletin*, **2018**, 63, 609-620	10.6	51
210	KCl-mediated dual electronic channels in layered g-CN for enhanced visible light photocatalytic NO removal. *Nanoscale*, **2018**, 10, 8066-8074	7.7	101
209	An unusual low-surface-area nitrogen doped carbon for ultrahigh gravimetric and volumetric capacitances. *Journal of Materials Chemistry A*, **2018**, 6, 8868-8873	13	14
208	Self-supporting CoO/Graphene Hybrid Films as Binder-free Anode Materials for Lithium Ion Batteries. *Scientific Reports*, **2018**, 8, 3182	4.9	41
207	Controllable synthesis of MnO2 nanostructures anchored on graphite foam with different morphologies for a high-performance asymmetric supercapacitor. *CrystEngComm*, **2018**, 20, 1690-1697	3.3	31
206	Structural Directed Growth of Ultrathin Parallel Birnessite on □MnO for High-Performance Asymmetric Supercapacitors. *ACS Nano*, **2018**, 12, 1033-1042	16.7	364
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