Low-cost high-performance solid-state asymmetric supercapacitors based on MnO2 nanowires and Fe2O3 nanotu

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#	Paper	IF	Citations
981	High-Performance Porous Molybdenum Oxynitride Based Fiber Supercapacitors.		
980	Porous Fe2O3 Modified by Nitrogen-Doped Carbon Quantum Dots/Reduced Graphene Oxide Composite Aerogel as a High-Capacity and High-Rate Anode Material for Alkaline Aqueous Batteries.		
979	Facile Electrochemical Fabrication of Porous Fe2O3 Nanosheets for Flexible Asymmetric Supercapacitors.		
978	Transparent and Self-Supporting Graphene Films with Wrinkled- Graphene-Wall-Assembled Opening Polyhedron Building Blocks for High Performance Flexible/Transparent Supercapacitors.		
977	Three-Dimensional Cobalt Phosphide Nanowire Arrays as Negative Electrode Material for Flexible Solid-State Asymmetric Supercapacitors.		
976	Fabrication of Ultralong Hybrid Microfibers from Nanosheets of Reduced Graphene Oxide and Transition-Metal Dichalcogenides and their Application as Supercapacitors. **2014**, 126, 12784-12788		54
975	Transition metal oxides/hydroxides nanoarrays for aqueous electrochemical energy storage systems. **2014**, 57, 59-69		40
974	Co3O4@layered double hydroxide core/shell hierarchical nanowire arrays for enhanced supercapacitance performance. **2014**, 7, 134-142		157
973	Aqueous Li-ion cells with superior cycling performance using multi-channeled polyaniline/Fe2O3 nanotube anodes. *Journal of Materials Chemistry A*, **2014**, 2, 20177-20181	13	10
972	3D binder-free Cu2O@Cu nanoneedle arrays for high-performance asymmetric supercapacitors. *Journal of Materials Chemistry A*, **2014**, 2, 18229-18235	13	152
971	Enhanced electrochemical performance of manganese dioxide spheres deposited on a titanium dioxide nanotube arrays substrate. *Journal of Power Sources*, **2014**, 272, 866-879	8.9	43
970	Preparation and performance of ╫MnO2 nanorod @ nanoflake (Ni, Co, Mn) oxides with hierarchical mesoporous structure. **2014**, 4, 42910-42916		10
969	A honeycomb-like porous carbon derived from pomelo peel for use in high-performance supercapacitors. *Nanoscale*, **2014**, 6, 13831-7	7.7	360
968	Understanding the effect of polypyrrole and poly(3,4-ethylenedioxythiophene) on enhancing the supercapacitor performance of NiCo2O4 electrodes. *Journal of Materials Chemistry A*, **2014**, 2, 16731-16739	13	58
967	Flexible solid-state electrochemical supercapacitors. **2014**, 8, 274-290		610
966	Engineering firecracker-like beta-manganese dioxides@spinel nickel cobaltates nanostructures for high-performance supercapacitors. *Journal of Power Sources*, **2014**, 270, 426-433	8.9	162
965	Fabrication of ultralong hybrid microfibers from nanosheets of reduced graphene oxide and transition-metal dichalcogenides and their application as supercapacitors. **2014**, 53, 12576-80		54

964	One-Pot Synthesis of Fe2O3 Nanoparticles on Nitrogen-Doped Graphene as Advanced Supercapacitor Electrode Materials. **2014**, 118, 17231-17239		252
963	A new benchmark capacitance for supercapacitor anodes by mixed-valence sulfur-doped V6O(13-x). **2014**, 26, 5869-75		276
962	Large-scale fabrication of pseudocapacitive glass windows that combine electrochromism and energy storage. **2014**, 53, 11935-9		183
961	Scalable fabrication of MnO2 nanostructure deposited on free-standing Ni nanocone arrays for ultrathin, flexible, high-performance micro-supercapacitor. **2014**, 7, 2652-2659		211
960	Flexible supercapacitors based on carbon nanotube/MnO2 nanotube hybrid porous films for wearable electronic devices. *Journal of Materials Chemistry A*, **2014**, 2, 17561-17567	13	112
959	All-solid-state flexible supercapacitors based on highly dispersed polypyrrole nanowire and reduced graphene oxide composites. *ACS Applied Materials & Interfaces*, **2014**, 6, 17937-43	9.5	68
958	Controllable functionalized carbon fabric for high-performance all-carbon-based supercapacitors. **2014**, 4, 33022		33
957	Reduced Graphene Oxide/Manganese Carbonate Hybrid Composite: High Performance Supercapacitor Electrode Material. *Electrochimica Acta*, **2014**, 147, 557-564	6.7	31
956	In situ hydrothermal growth of ferric oxides on carbon cloth for low-cost and scalable high-energy-density supercapacitors. **2014**, 9, 345-354		113
955	Low-cost and high energy density asymmetric supercapacitors based on polyaniline nanotubes and MoO3 nanobelts. *Journal of Materials Chemistry A*, **2014**, 2, 10384-10388	13	94
954	High-performance all-solid-state flexible supercapacitors based on two-step activated carbon cloth. *Journal of Power Sources*, **2014**, 272, 16-23	8.9	81
953	Spinel manganese-nickel-cobalt ternary oxide nanowire array for high-performance electrochemical capacitor applications. *ACS Applied Materials & Interfaces*, **2014**, 6, 18040-7	9.5	138
952	Reciprocal alternate deposition strategy using metal oxide/carbon nanotube for positive and negative electrodes of high-performance supercapacitors. **2014**, 10, 108-116		53
951	Large-Scale Fabrication of Pseudocapacitive Glass Windows that Combine Electrochromism and Energy Storage. **2014**, 126, 12129-12133		16
950	Understanding hydrothermal transformation from Mn2O3 particles to Na0.55Mn2O4□1.5H2O nanosheets, nanobelts, and single crystalline ultra-long Na4Mn9O18 nanowires. **2015**, 5, 18275		20
949	Flexible and High Performance Supercapacitors Based on NiCo2O4for Wide Temperature Range Applications. **2015**, 5, 15265		85
948	Carbon-Based Materials for Lithium-Ion Batteries, Electrochemical Capacitors, and Their Hybrid Devices. **2015**, 8, 2284-311		181
947	Carbon-Stabilized High-Capacity Ferroferric Oxide Nanorod Array for Flexible Solid-State Alkaline Battery–Supercapacitor Hybrid Device with High Environmental Suitability. **2015**, 25, 5384-5394		396

946	Chemical Modification of Graphene Oxide through Diazonium Chemistry and Its Influence on the Structure-Property Relationships of Graphene Oxide-Iron Oxide Nanocomposites. **2015**, 21, 12465-74		27
945	Coil-Type Asymmetric Supercapacitor Electrical Cables. *Small*, **2015**, 11, 5289-95	11	65
944	Nitrogen-Doped Carbon Encapsulated Mesoporous Vanadium Nitride Nanowires as Self-Supported Electrodes for Flexible All-Solid-State Supercapacitors. **2015**, 2, 1500211		84
943	Reduced graphene oxide-wrapped MoO3 composites prepared by using metal-organic frameworks as precursor for all-solid-state flexible supercapacitors. **2015**, 27, 4695-701		326
942	Flexible supercapacitors based on carbon nanotube/MnO2 nanotube hybrid porous films for wearable electronic devices. **2015**,		
941	Developing MnO2-based high-performance flexible supercapacitors. **2015**,		
940	Hierarchical three-dimensional NiCo2O4 nanoneedle arrays supported on Ni foam for high-performance supercapacitors. **2015**, 5, 25304-25311		51
939	All-solid-state flexible supercapacitors by fast laser annealing of printed metal nanoparticle layers. *Journal of Materials Chemistry A*, **2015**, 3, 8339-8345	13	57
938	Magnetic-Assisted, Self-Healable, Yarn-Based Supercapacitor. **2015**, 9, 6242-51		248
937	Scalable non-liquid-crystal spinning of locally aligned graphene fibers for high-performance wearable supercapacitors. **2015**, 15, 642-653		151
936	A wire-shaped flexible asymmetric supercapacitor based on carbon fiber coated with a metal oxide and a polymer. *Journal of Materials Chemistry A*, **2015**, 3, 13461-13467	13	133
935	Rational Design of Porous MnO 2 Tubular Arrays via Facile and Templated Method for High Performance Supercapacitors. *Electrochimica Acta*, **2015**, 154, 329-337	6.7	49
934	Adjusting electrode initial potential to obtain high-performance asymmetric supercapacitor based on porous vanadium pentoxide nanotubes and activated carbon nanorods. *Journal of Power Sources* , **2015**, 279, 358-364	8.9	57
933	Ni@NiO core□hell nanoparticle tube arrays with enhanced supercapacitor performance. *Journal of Materials Chemistry A*, **2015**, 3, 6432-6439	13	68
932	A versatile strategy toward binary three-dimensional architectures based on engineering graphene aerogels with porous carbon fabrics for supercapacitors. *ACS Applied Materials & Interfaces*, **2015**, 7, 4257-64	9.5	57
931	Improved pseudocapacitive performance of well-defined WO3□ nanoplates. **2015**, 41, 4989-4995		25
930	Rational design of coaxial mesoporous birnessite manganese dioxide/amorphous-carbon nanotubes arrays for advanced asymmetric supercapacitors. *Journal of Power Sources*, **2015**, 278, 555-561	8.9	49
929	All conducting polymer electrodes for asymmetric solid-state supercapacitors. *Journal of Materials Chemistry A*, **2015**, 3, 7368-7374	13	87

928	The perfect matching between the low-cost Fe2O3 nanowire anode and the NiO nanoflake cathode significantly enhances the energy density of asymmetric supercapacitors. *Journal of Materials Chemistry A*, **2015**, 3, 6662-6670	13	108
927	Ultrathin MoO 3 nanocrystalsself-assembled on graphene nanosheets via oxygen bonding as supercapacitor electrodes of high capacitance and long cycle life. **2015**, 12, 510-520		165
926	A one-step, cost-effective green method to in situ fabricate Ni(OH)2 hexagonal platelets on Ni foam as binder-free supercapacitor electrode materials. *Journal of Materials Chemistry A*, **2015**, 3, 1953-1960	13	147
925	Flexible and ultralong-life cuprous oxide microsphere-nanosheets with superior pseudocapacitive properties. **2015**, 5, 6207-6214		18
924	Enhanced electrochemical performance of hybrid SnO2@MOx (M = Ni, Co, Mn) core–shell nanostructures grown on flexible carbon fibers as the supercapacitor electrode materials. *Journal of Materials Chemistry A*, **2015**, 3, 3676-3682	13	74
923	Directly grown nanostructured electrodes for high volumetric energy density binder-free hybrid supercapacitors: a case study of CNTs//Li4Ti5O12. **2015**, 5, 7780		95
922	Facile Synthesis of Three Dimensional NiCo2O4@MnO2 Core–Shell Nanosheet Arrays and its Supercapacitive Performance. *Electrochimica Acta*, **2015**, 157, 31-40	6.7	78
921	Flexible fiber-shaped supercapacitors based on hierarchically nanostructured composite electrodes. **2015**, 8, 1148-1158		165
920	Controlled partial-exfoliation of graphite foil and integration with MnO2 nanosheets for electrochemical capacitors. *Nanoscale*, **2015**, 7, 3581-7	7.7	81
919	Hierarchical assembly of SnO2 nanowires on MnO2 nanosheets: a novel 1/2D hybrid architecture for high-capacity, reversible lithium storage. *Journal of Materials Chemistry A*, **2015**, 3, 6477-6483	13	58
918	Impact of the atomic layer deposition precursors diffusion on solid-state carbon nanotube based supercapacitors performances. **2015**, 26, 064002		15
917	Interwoven three-dimensional architecture of cobalt oxide nanobrush-graphene@Ni(x)Co(2x)(OH)(6x) for high-performance supercapacitors. *Nano Letters*, **2015**, 15, 2037-44	11.5	129
916	Flexible all-solid-state asymmetric supercapacitors with three-dimensional CoSe2/carbon cloth electrodes. *Journal of Materials Chemistry A*, **2015**, 3, 7910-7918	13	101
915	MnO2 nanostructures with three-dimensional (3D) morphology replicated from diatoms for high-performance supercapacitors. *Journal of Materials Chemistry A*, **2015**, 3, 7855-7861	13	88
914	One-dimensional nanostructures for flexible supercapacitors. *Journal of Materials Chemistry A*, **2015**, 3, 16382-16392	13	59
913	Three-dimensional Co3O4@C@Ni3S2 sandwich-structured nanoneedle arrays: towards high-performance flexible all-solid-state asymmetric supercapacitors. *Journal of Materials Chemistry A*, **2015**, 3, 16150-16161	13	155
912	Low-cost flexible supercapacitors with high-energy density based on nanostructured MnO2 and Fe2O3 thin films directly fabricated onto stainless steel. **2015**, 5, 12454		160
911	Facile synthesis of MnO2/rGO/Ni composite foam with excellent pseudocapacitive behavior for supercapacitors. **2015**, 649, 579-584		40

910	The impact of morphologies and electrolyte solutions on the supercapacitive behavior for Fe 2 O 3 and the charge storage mechanism. *Electrochimica Acta*, **2015**, 178, 171-178	6.7	31
909	Bunched akaganeite nanorod arrays: Preparation and high-performance for flexible lithium-ion batteries. *Journal of Power Sources*, **2015**, 296, 237-244	8.9	31
908	Three-dimensional Fe2O3/carbon nanotube sponges as flexible supercapacitor electrodes. *Journal of Materials Chemistry A*, **2015**, 3, 20927-20934	13	125
907	Synthesis of shish-kebab-like NiO@Co3O4 nanowire arrays and their application for electrochemical energy storage. **2015**, 159, 313-316		10
906	Faradic redox active material of Cu7S4 nanowires with a high conductance for flexible solid state supercapacitors. *Nanoscale*, **2015**, 7, 13610-8	7.7	95
905	Partial conversion of current collectors into nickel copper oxide electrode materials for high-performance energy storage devices. *ACS Applied Materials & Interfaces*, **2015**, 7, 15277-84	9.5	27
904	Hierarchical porous CNTs@NCS@MnO2 composites: rational design and high asymmetric supercapacitor performance. *Journal of Materials Chemistry A*, **2015**, 3, 15642-15649	13	34
903	Improved performance of asymmetric fiber-based micro-supercapacitors using carbon nanoparticles for flexible energy storage. *Journal of Materials Chemistry A*, **2015**, 3, 15633-15641	13	31
902	Nanostructured porous wires of iron cobaltite: novel positive electrode for high-performance hybrid energy storage devices. *Journal of Materials Chemistry A*, **2015**, 3, 16849-16859	13	82
901	Quantitative Analysis of Charge Storage Process of Tungsten Oxide that Combines Pseudocapacitive and Electrochromic Properties. **2015**, 119, 16483-16489		74
900	Morphology and crystallinity-controlled synthesis of manganese cobalt oxide/manganese dioxides hierarchical nanostructures for high-performance supercapacitors. *Journal of Power Sources*, **2015**, 296, 86-91	8.9	81
899	Controlled synthesis of cobalt carbonate/graphene composites with excellent supercapacitive performance and pseudocapacitive characteristics. *Journal of Materials Chemistry A*, **2015**, 3, 17827-17836	13	38
898	Graphene based 2D-materials for supercapacitors. **2015**, 2, 032002		60
897	Fe2O3@PANI Core-Shell Nanowire Arrays as Negative Electrodes for Asymmetric Supercapacitors. *ACS Applied Materials & Interfaces*, **2015**, 7, 14843-50	9.5	303
896	Template-grown graphene/porous Fe2O3 nanocomposite: A high-performance anode material for pseudocapacitors. **2015**, 15, 719-728		95
895	Application of biomass-derived flexible carbon cloth coated with MnO2 nanosheets in supercapacitors. *Journal of Power Sources*, **2015**, 294, 150-158	8.9	162
894	An advanced aqueous sodium-ion supercapacitor with a manganous hexacyanoferrate cathode and a Fe3O4/rGO anode. *Journal of Materials Chemistry A*, **2015**, 3, 16013-16019	13	107
893	Functionalized carbonaceous fibers for high performance flexible all-solid-state asymmetric supercapacitors. *Journal of Materials Chemistry A*, **2015**, 3, 11817-11823	13	118

892	High-performance asymmetric full-cell supercapacitors based on CoNi2S4 nanoparticles and activated carbon. **2015**, 19, 2177-2188		24
891	Mn-Doped □FeOOH Nanorods and □Fe2O3 Mesoporous Nanorods: Facile Synthesis and Applications as High Performance Anodes for LIBs. **2015**, 1, 1400057		40
890	Iron oxide-decorated carbon for supercapacitor anodes with ultrahigh energy density and outstanding cycling stability. **2015**, 9, 5198-207		375
889	Advanced Ti-Doped Fe2O3@PEDOT Core/Shell Anode for High-Energy Asymmetric Supercapacitors. **2015**, 5, 1402176		367
888	Facile one-step synthesis of Co(OH)2 microsphere/graphene composites for an efficient supercapacitor electrode material. **2015**, 5, 38324-38329		10
887	Improvement in flexibility and volumetric performance for supercapacitor application and the effect of Ni□e ratio on electrode behaviour. *Journal of Materials Chemistry A*, **2015**, 3, 7607-7615	13	24
886	Hierarchically structured MnO2/graphene/carbon fiber and porous graphene hydrogel wrapped copper wire for fiber-based flexible all-solid-state asymmetric supercapacitors. *Journal of Materials Chemistry A*, **2015**, 3, 11215-11223	13	218
885	Bendable All-Solid-State Asymmetric Supercapacitors based on MnO2 and Fe2O3 Thin Films. **2015**, 3, 625-631		48
884	Freestanding CNT□WO3 hybrid electrodes for flexible asymmetric supercapacitors. *Journal of Materials Chemistry A*, **2015**, 3, 12076-12080	13	87
883	Engineering three-dimensional hybrid supercapacitors and microsupercapacitors for high-performance integrated energy storage. **2015**, 112, 4233-8		408
882	Hydrothermal Self-assembly of Manganese Dioxide/Manganese Carbonate/Reduced Graphene Oxide Aerogel for Asymmetric Supercapacitors. *Electrochimica Acta*, **2015**, 164, 154-162	6.7	99
881	Advanced solid-state asymmetric supercapacitors based on 3D graphene/MnO2 and graphene/polypyrrole hybrid architectures. *Journal of Materials Chemistry A*, **2015**, 3, 12828-12835	13	146
880	Design and synthesis of 3D hierarchical NiCo2S4@MnO2 core□shell nanosheet arrays for high-performance pseudocapacitors. **2015**, 5, 44642-44647		52
879	Redox-Mediated Synthesis of a Fe□□□MnO□Nanocomposite for Dye Adsorption and Pseudocapacitance. **2015**, 10, 1571-80		26
878	Asymmetric Paper Supercapacitor Based on Amorphous Porous Mn3O4 Negative Electrode and Ni(OH)2 Positive Electrode: A Novel and High-Performance Flexible Electrochemical Energy Storage Device. *ACS Applied Materials & Interfaces*, **2015**, 7, 11444-51	9.5	170
877	Nitrogen-doped porous graphene□ctivated carbon composite derived from □ucky gels□for supercapacitors. **2015**, 5, 10739-10745		25
876	Shape-Tailorable Graphene-Based Ultra-High-Rate Supercapacitor for Wearable Electronics. **2015**, 9, 5636-45		111
875	A Novel Exfoliation Strategy to Significantly Boost the Energy Storage Capability of Commercial Carbon Cloth. **2015**, 27, 3572-8		332

874	Fabrication of a stretchable and patchable array of high performance micro-supercapacitors using a non-aqueous solvent based gel electrolyte. **2015**, 8, 1764-1774		115
873	Controllable synthesis of activated graphene and its application in supercapacitors. *Journal of Materials Chemistry A*, **2015**, 3, 9543-9549	13	31
872	MnO2 Nanosheets Grown on Nitrogen-Doped Hollow Carbon Shells as a High-Performance Electrode for Asymmetric Supercapacitors. **2015**, 21, 7119-26		54
871	Facile preparation of NiCo2O4 nanobelt/graphene composite for electrochemical capacitor application. *Electrochimica Acta*, **2015**, 166, 206-214	6.7	48
870	Design and synthesis of micron-sized spherical aggregates composed of hollow Fe2O3 nanospheres for use in lithium-ion batteries. *Nanoscale*, **2015**, 7, 8361-7	7.7	54
869	High-performance flexible dye-sensitized solar cells by using hierarchical anatase TiO2 nanowire arrays. **2015**, 5, 88052-88058		19
868	A review of negative electrode materials for electrochemical supercapacitors. **2015**, 58, 1799-1808		65
867	New asymmetric and symmetric supercapacitor cells based on nickel phosphide nanoparticles. *Materials Chemistry and Physics*, **2015**, 165, 207-214	4.4	28
866	Core□shell MnO2@Fe2O3 nanospindles as a positive electrode for aqueous supercapacitors. *Journal of Materials Chemistry A*, **2015**, 3, 22066-22072	13	47
865	Al/C/MnO2 sandwich nanowalls with highly porous surface for electrochemical energy storage. *Journal of Power Sources*, **2015**, 299, 408-416	8.9	27
864	VO2: from negative electrode material to symmetric electrochemical capacitor. **2015**, 5, 97239-97247		34
863	Hierarchical core□shell heterostructure of porous carbon nanofiber@ZnCo2O4 nanoneedle arrays: advanced binder-free electrodes for all-solid-state supercapacitors. *Journal of Materials Chemistry A* , **2015**, 3, 24082-24094	13	113
862	Chemical modification of graphene aerogels for electrochemical capacitor applications. **2015**, 17, 30946-62		67
861	A facile synthesis of □MnO2 used as a supercapacitor electrode material: The influence of the Mn-based precursor solutions on the electrochemical performance. **2015**, 357, 1747-1752		19
860	Heterogeneous Nanostructures for Sodium Ion Batteries and Supercapacitors. **2015**, 1, 458-476		25
859	One-pot synthesis of CoNiO2 single-crystalline nanoparticles as high-performance electrode materials of asymmetric supercapacitors. **2015**, 17, 1		17
858	Solvothermally induced □Fe2O3/graphene nanocomposites with ultrahigh capacitance and excellent rate capability for supercapacitors. *Journal of Materials Chemistry A*, **2015**, 3, 22005-22011	13	59
857	Porous nitrogen and phosphorus co-doped carbon nanofiber networks for high performance electrical double layer capacitors. *Journal of Materials Chemistry A*, **2015**, 3, 23268-23273	13	68

856	Co3O4@Highly ordered macroporous carbon derived from a mollusc shell for supercapacitors. **2015**, 5, 75105-75110		18
855	Flexible all-solid-state asymmetric supercapacitor assembled using coaxial NiMoO 4 nanowire arrays with chemically integrated conductive coating *Electrochimica Acta*, **2015**, 178, 429-438	6.7	54
854	Multidimensional MnO2 nanohair-decorated hybrid multichannel carbon nanofiber as an electrode material for high-performance supercapacitors. *Nanoscale*, **2015**, 7, 16026-33	7.7	44
853	A novel aqueous asymmetric supercapacitor based on petal-like cobalt selenide nanosheets and nitrogen-doped porous carbon networks electrodes. *Journal of Power Sources*, **2015**, 297, 351-358	8.9	140
852	Morphology and Electrochemical Properties of □ ■ □ and □MnO2 Synthesized by Redox Method. **2015**, 162, A2058-A2065		41
851	Layer-by-layer grown scalable redox-active ruthenium-based molecular multilayer thin films for electrochemical applications and beyond. *Nanoscale*, **2015**, 7, 17685-92	7.7	27
850	Polypyrrole-coated manganese dioxide with multiscale architectures for ultrahigh capacity energy storage. **2015**, 8, 3030-3039		102
849	Vertically aligned carbon nanotube@MnO2 nanosheet arrays grown on carbon cloth for high performance flexible electrodes of supercapacitors. **2015**, 5, 77437-77442		12
848	MnO2-based nanostructures for high-performance supercapacitors. *Journal of Materials Chemistry A*, **2015**, 3, 21380-21423	13	655
847	Three-Dimensional Expanded Graphene-Metal Oxide Film via Solid-State Microwave Irradiation for Aqueous Asymmetric Supercapacitors. *ACS Applied Materials & Interfaces*, **2015**, 7, 22364-71	9.5	50
846	Hierarchical Mesoporous Zinc-Nickel-Cobalt Ternary Oxide Nanowire Arrays on Nickel Foam as High-Performance Electrodes for Supercapacitors. *ACS Applied Materials & Interfaces*, **2015**, 7, 26512-21	9.5	189
845	□Fe□□Nanocrystalline Microspheres with Hybrid Behavior of Battery-Supercapacitor for Superior Lithium Storage. *ACS Applied Materials & Interfaces*, **2015**, 7, 26284-90	9.5	48
844	Investigation of hematite nanorod□anoflake morphological transformation and the application of ultrathin nanoflakes for electrochemical devices. **2015**, 12, 169-177		71
843	Direct growth of mesoporous carbon-coated Ni nanoparticles on carbon fibers for flexible supercapacitors. *Journal of Materials Chemistry A*, **2015**, 3, 2876-2882	13	25
842	Reducing CO2 to dense nanoporous graphene by Mg/Zn for high power electrochemical capacitors. **2015**, 11, 600-610		78
841	Supercapacitor electrode materials: nanostructures from 0 to 3 dimensions. **2015**, 8, 702-730		1739
840	Tungsten oxide@polypyrrole core-shell nanowire arrays as novel negative electrodes for asymmetric supercapacitors. *Small*, **2015**, 11, 749-55	11	129
839	A high-rate aqueous symmetric pseudocapacitor based on highly graphitized onion-like carbon/birnessite-type manganese oxide nanohybrids. *Journal of Materials Chemistry A*, **2015**, 3, 3480-3490	13	74

838	Controlling porosity in lignin-derived nanoporous carbon for supercapacitor applications. **2015**, 8, 428-32		157
837	Flexible Asymmetric Micro-Supercapacitors Based on Bi2O3 and MnO2 Nanoflowers: Larger Areal Mass Promises Higher Energy Density. **2015**, 5, 1401882		408
836	Controlled growth of nanostructured MnO2 on carbon nanotubes for high-performance electrochemical capacitors. *Electrochimica Acta*, **2015**, 152, 480-488	6.7	67
835	Functionalized graphene aerogel composites for high-performance asymmetric supercapacitors. **2015**, 11, 611-620		107
834	High-performance asymmetric supercapacitors based on multilayer MnO2 /graphene oxide nanoflakes and hierarchical porous carbon with enhanced cycling stability. *Small*, **2015**, 11, 1310-9	11	289
833	MnO2@KCu7S4 NWs hybrid compositions for high-power all-solid-state supercapacitor. *Journal of Power Sources*, **2015**, 274, 477-482	8.9	26
832	3D graphene/ZnO nanorods composite networks as supercapacitor electrodes. **2015**, 620, 31-37		107
831	Rapid one-step synthesis of conductive and porous MnO2/graphene nanocomposite for high performance supercapacitors. **2016**, 776, 134-138		19
830	Nanostructured Iron Oxide/Hydroxide-Based Electrode Materials for Supercapacitors. **2016**, 2, 588-600		62
829	Tailorable pseudocapacitors for energy storage clothes. **2016**, 6, 67764-67770		3
828	Large-Area, Ultrathin Inorganic Network Coverages Graphene Hierarchical Electrodes for Flexible, Heat-Resistant Energy Storage Application. **2016**, 6, 1600146		20
827	Effectively Improving Capacitive Performance of Three-Dimensional Iron(III) Oxide Nanotube Arrays by Rationally Filling Mesopores with Polypyrrole. *ChemElectroChem*, **2016**, 3, 1407-1414	4.3	
826	High-Performance Fiber-Shaped All-Solid-State Asymmetric Supercapacitors Based on Ultrathin MnO2 Nanosheet/Carbon Fiber Cathodes for Wearable Electronics. **2016**, 6, 1501458		362
825	Oxygen Evolution Assisted Fabrication of Highly Loaded Carbon Nanotube/MnO2 Hybrid Films for High-Performance Flexible Pseudosupercapacitors. *Small*, **2016**, 12, 2035-45	11	50
824	Hydrothermal synthesis of manganese oxide encapsulated multiporous carbon nanofibers for supercapacitors. **2016**, 9, 2672-2680		30
823	Flexible Advanced Asymmetric Supercapacitors Based on Titanium Nitride-based Nanowire Electrodes. *Electrochimica Acta*, **2016**, 213, 393-399	6.7	17
822	Hierarchical porous cobalt monoxide nanosheet@ultrathin manganese dioxide nanosheet core-shell arrays for high-performance asymmetric supercapacitor. **2016**, 41, 13540-13548		27
821	Low-cost superior solid-state symmetric supercapacitors based on hematite nanocrystals. **2016**, 27, 505404		13

820	Enhanced energy density of a supercapacitor using 2D CoMoO ultrathin nanosheets and asymmetric configuration. **2016**, 27, 505401		15
819	Solution-based synthesis of carbon-hematite composite thin films for high-performance supercapacitor applications. **2016**, 6, 367-374		5
818	Morphology Dependent Supercapacitance of Nanostructured NiCo 2 O 4 on Graphitic Carbon Nitride. *Electrochimica Acta*, **2016**, 200, 239-246	6.7	45
817	Nickel hydroxide coated carbon nanoparticles mediated hybrid three-dimensional graphene foam assembly for supercapacitor. **2016**, 6, 36307-36313		9
816	CuO Nanoflowers growing on Carbon Fiber Fabric for Flexible High-Performance Supercapacitors. *Electrochimica Acta*, **2016**, 203, 1-8	6.7	89
815	Hierarchical Heterostructures of NiCo2O4@XMoO4 (X = Ni, Co) as an Electrode Material for High-Performance Supercapacitors. **2016**, 11, 257		21
814	Flexible solid-state supercapacitor fabricated by metal-organic framework/graphene oxide hybrid interconnected with PEDOT. *Materials Chemistry and Physics*, **2016**, 179, 166-173	4.4	68
813	RGO/MnO 2 /polypyrrole ternary film electrode for supercapacitor. *Materials Chemistry and Physics*, **2016**, 177, 40-47	4.4	33
812	Superior electrochemical performance of carbon cloth electrode-based supercapacitors through surface activation and nitrogen doping. *Ionics*, **2016**, 22, 1881-1890	2.7	24
811	A high performance flexible all solid state supercapacitor based on the MnO2 sphere coated macro/mesoporous Ni/C electrode and ionic conducting electrolyte. *Nanoscale*, **2016**, 8, 11976-83	7.7	15
810	Flexible electrochromic supercapacitor hybrid electrodes based on tungsten oxide films and silver nanowires. **2016**, 52, 6296-9		325
809	Interlinked multiphase Fe-doped MnO2 nanostructures: a novel design for enhanced pseudocapacitive performance. *Nanoscale*, **2016**, 8, 7309-17	7.7	50
808	Fabrication of Functionalized Graphene-Based MnO2Nanoflower through Electrodeposition for High-Performance Supercapacitor Electrodes. **2016**, 163, D230-D238		27
807	In situ hydrothermal fabrication of a MnO2@CoMoO4@Ni nanohybrid electrode and ultrahigh energy density of ASCs. **2016**, 6, 46508-46515		7
806	Laser-processed graphene based micro-supercapacitors for ultrathin, rollable, compact and designable energy storage components. **2016**, 26, 276-285		112
805	Ultrahigh-rate-capability of a layered double hydroxide supercapacitor based on a self-generated electrolyte reservoir. *Journal of Materials Chemistry A*, **2016**, 4, 8421-8427	13	50
804	Nitrogen-doped hierarchically porous carbon foam: A free-standing electrode and mechanical support for high-performance supercapacitors. **2016**, 25, 193-202		229
803	Electrochemical performance in alkaline and neutral electrolytes of a manganese phosphate material possessing a broad potential window. **2016**, 6, 40077-40085		37

802	Three-dimensional hierarchical NiCo2O4 nanowire@Ni3S2 nanosheet core/shell arrays for flexible asymmetric supercapacitors. *Nanoscale*, **2016**, 8, 10686-94	7.7	87
801	A high-temperature flexible supercapacitor based on pseudocapacitive behavior of FeOOH in an ionic liquid electrolyte. *Journal of Materials Chemistry A*, **2016**, 4, 8316-8327	13	105
800	Freestanding flexible graphene foams@polypyrrole@MnO2 electrodes for high-performance supercapacitors. *Journal of Materials Chemistry A*, **2016**, 4, 9196-9203	13	65
799	Flexible two-ply yarn supercapacitors based on carbon nanotube/stainless steel core spun yarns decorated with Co 3 O 4 nanoparticles and MnO x composites. *Electrochimica Acta*, **2016**, 215, 535-542	6.7	17
798	Performance of High Energy Density Symmetric Supercapacitor Based on Sputtered MnO2 Nanorods. **2016**, 1, 3885-3891		43
797	Electrochemical Properties of APCVD □Fe2O3 Nanoparticles at 300 oC. **2016**, 1, 2228-2234		1
796	Hybrid Fe2O3 Nanoparticle Clusters/rGO Paper as an Effective Negative Electrode for Flexible Supercapacitors. **2016**, 28, 7296-7303		77
795	A bismuth oxide nanosheet-coated electrospun carbon nanofiber film: a free-standing negative electrode for flexible asymmetric supercapacitors. *Journal of Materials Chemistry A*, **2016**, 4, 16635-16644	13	87
794	3D-Printed Structural Pseudocapacitors. **2016**, 1, 1600167		26
793	A comparative study of Ni-Mn layered double hydroxide/carbon composites with different morphologies for supercapacitors. **2016**, 18, 30068-30078		49
792	Hierarchical nanosheet-based Bi2MoO6 nanotubes with remarkably improved electrochemical performance. *Journal of Power Sources*, **2016**, 331, 481-486	8.9	29
791	Nanowire-Enabled Energy Storage. **2016**, 203-225		
790	A flexible and high-performance all-solid-state supercapacitor device based on Ni3S2 nanosheets coated ITO nanowire arrays on carbon fabrics. **2016**, 6, 75186-75193		27
789	Vertically porous nickel thin film supported Mn3O4 for enhanced energy storage performance. **2016**, 483, 17-25		21
788	Flexible solid□state supercapacitor of metal□organic framework coated on carbon nanotube film interconnected by electrochemically -codeposited PEDOT-GO. **2016**, 1, 285-289		44
787	Large-Area Supercapacitor Textiles with Novel Hierarchical Conducting Structures. **2016**, 28, 8431-8438		137
786	Tracking Pseudocapacitive Contribution to Superior Energy Storage of MnS Nanoparticles Grown on Carbon Textile. *ACS Applied Materials & Interfaces*, **2016**, 8, 24621-8	9.5	62
785	Iron-Based Supercapacitor Electrodes: Advances and Challenges. **2016**, 6, 1601053		270

784	A Flexible Quasi-Solid-State Nickel-Zinc Battery with High Energy and Power Densities Based on 3D Electrode Design. **2016**, 28, 8732-8739		367
783	One-step synthesis of architectural Ni3S2 nanosheet-on-nanorods array for use as high-performance electrodes for supercapacitors. **2016**, 8, e300-e300		69
782	Sputtered Synthesis of MnO2 Nanorods as Binder Free Electrode for High Performance Symmetric Supercapacitors. *Electrochimica Acta*, **2016**, 222, 1761-1769	6.7	40
781	Unraveling the different charge storage mechanism in T and H phases of MoS2. *Electrochimica Acta*, **2016**, 217, 1-8	6.7	29
780	Rate capability improvement of polypyrrole via integration with functionalized commercial carbon cloth for pseudocapacitor. *Journal of Power Sources*, **2016**, 324, 788-797	8.9	58
779	Review on Fe2O3 based negative electrode for high performance supercapacitors. *Journal of Power Sources*, **2016**, 327, 297-318	8.9	226
778	High-Performance Flexible Solid-State Ni/Fe Battery Consisting of Metal Oxides Coated Carbon Cloth/Carbon Nanofiber Electrodes. **2016**, 6, 1601034		213
777	Nanomaterials in Advanced Batteries and Supercapacitors. **2016**,		21
776	A Porous Perchlorate-Doped Polypyrrole Nanocoating on Nickel Nanotube Arrays for Stable Wide-Potential-Window Supercapacitors. **2016**, 28, 7680-7		161
775	Nanostructured Manganese Oxides in Supercapacitors. **2016**, 345-376		3
774	3D interconnected networks of a ternary hierarchical carbon nanofiber/MnO2/Ni(OH)2 architecture as integrated electrodes for all-solid-state supercapacitors. **2016**, 6, 71882-71892		10
773	Layered nickel metal–organic framework for high performance alkaline battery-supercapacitor hybrid devices. *Journal of Materials Chemistry A*, **2016**, 4, 13344-13351	13	180
772	Multifunctional Energy Storage and Conversion Devices. **2016**, 28, 8344-8364		305
771	Integrated super-hydrophobic and antireflective PDMS bio-templated from nano-conical structures of cicada wings. **2016**, 6, 108974-108980		22
770	High-performance Transparent and Flexible Asymmetric Supercapacitor based on Graphene-wrapped Amorphous FeOOH Nanowire and Co(OH)2 Nanosheet Transparent Films Produced at air-water interface. *Electrochimica Acta*, **2016**, 220, 618-627	6.7	41
769	Fe2O3-decorated millimeter-long vertically aligned carbon nanotube arrays as advanced anode materials for asymmetric supercapacitors with high energy and power densities. *Journal of Materials Chemistry A*, **2016**, 4, 19026-19036	13	41
768	A high-performance asymmetric supercapacitor based on Co(OH) 2 /graphene and activated carbon electrodes. **2016**, 782, 98-102		47
767	MoO3@Ni nanowire array hierarchical anode for high capacity and superior longevity all-metal-oxide asymmetric supercapacitors. **2016**, 6, 110112-110119		18

766	Controllable-multichannel carbon nanofibers-based amorphous vanadium as binder-free and conductive-free electrode materials for supercapacitor. **2016**, 41, 22144-22154		18
765	Band alignment engineering for high-energy-density solid-state asymmetric supercapacitors with TiO2 insertion at the ZnO/Ni(OH)2 interface. *Journal of Materials Chemistry A*, **2016**, 4, 17981-17987	13	22
764	Pyrite FeS2 nanobelts as high-performance anode material for aqueous pseudocapacitor. *Electrochimica Acta*, **2016**, 222, 172-176	6.7	40
763	Manganese silicate drapes as a novel electrode material for supercapacitors. **2016**, 6, 105771-105779		25
762	Solution-Processed Two-Dimensional Metal Dichalcogenide-Based Nanomaterials for Energy Storage and Conversion. **2016**, 28, 6167-96		372
761	Amorphous FeOOH Quantum Dots Assembled Mesoporous Film Anchored on Graphene Nanosheets with Superior Electrochemical Performance for Supercapacitors. **2016**, 26, 919-930		343
760	Scalable Fabrication of Nanoporous Carbon Fiber Films as Bifunctional Catalytic Electrodes for Flexible Zn-Air Batteries. **2016**, 28, 3000-6		508
759	Ultra-endurance flexible all-solid-state asymmetric supercapacitors based on three-dimensionally coated MnOx nanosheets on nanoporous current collectors. **2016**, 26, 610-619		96
758	High energy density of quasi-solid-state supercapacitor based on redox-mediated gel polymer electrolyte. **2016**, 6, 55225-55232		46
757	All-flexible lithium ion battery based on thermally-etched porous carbon cloth anode and cathode. **2016**, 26, 446-455		147
756	Core-double shell ZnO/ZnS@Co3O4 heterostructure as high performance pseudocapacitor. **2016**, 45, 9103-12		12
755	Flexible fiber hybrid supercapacitor with NiCo2O4 nanograss@carbon fiber and bio-waste derived high surface area porous carbon. *Electrochimica Acta*, **2016**, 211, 411-419	6.7	91
754	A high energy density all-solid-state asymmetric supercapacitor based on MoS2/graphene nanosheets and MnO2/graphene hybrid electrodes. *Journal of Materials Chemistry A*, **2016**, 4, 11264-11275	13	127
753	Hydrothermal synthesis of CuCo2O4/CuO nanowire arrays and RGO/Fe2O3 composites for high-performance aqueous asymmetric supercapacitors. *Journal of Materials Chemistry A*, **2016**, 4, 9977-9985	13	149
752	Facile hydrothermal synthesis of NiTe and its application as positive electrode material for asymmetric supercapacitor. **2016**, 685, 384-390		62
751	Unconventional supercapacitors from nanocarbon-based electrode materials to device configurations. **2016**, 45, 4340-63		396
750	3D hybrid porous carbon derived from carbonization of metal organic frameworks for high performance supercapacitors. *Journal of Power Sources*, **2016**, 325, 286-291	8.9	74
749	Combining Bulk/Surface Engineering of Hematite To Synergistically Improve Its Photoelectrochemical Water Splitting Performance. *ACS Applied Materials & Interfaces*, **2016**, 8, 16071-7	9.5	53

748	Facile synthesis of polypyrrole nanowires for high-performance supercapacitor electrode materials. **2016**, 26, 237-242		73
747	Highly energetic flexible all-solid-state asymmetric supercapacitor with Fe2O3 and CuO thin films. **2016**, 6, 58839-58843		23
746	Hierarchical three-dimensional MnO2/carbon@TiO2 nanotube arrays for high-performance supercapacitors. **2016**, 6, 63642-63651		3
745	CoNi2S4-Graphene-2D-MoSe2 as an Advanced Electrode Material for Supercapacitors. **2016**, 6, 1600341		120
744	In situ DRIFTS studies on MnOx nanowires supported by activated semi-coke for low temperature selective catalytic reduction of NOx with NH3. **2016**, 366, 139-147		46
743	High power density nitridated hematite (Fe2O3) nanorods as anode for high-performance flexible lithium ion batteries. *Journal of Power Sources*, **2016**, 308, 7-17	8.9	163
742	Enhancement in growth rate and productivity of spinach grown in hydroponics with iron oxide nanoparticles. **2016**, 6, 15451-15459		70
741	Band gap engineering of MnO2 through in situ Al-doping for applicable pseudocapacitors. **2016**, 6, 13914-13919		39
740	All-in-One Beaker Method for Large-Scale Production of Metal Oxide Hollow Nanospheres Using Nanoscale Kirkendall Diffusion. *ACS Applied Materials & Interfaces*, **2016**, 8, 3800-9	9.5	13
739	Amorphous nanostructured FeOOH and CoNi double hydroxides for high-performance aqueous asymmetric supercapacitors. **2016**, 21, 145-153		196
738	A symmetric MnO2/MnO2 flexible solid state supercapacitor operating at 1.6V with aqueous gel electrolyte. **2016**, 25, 463-471		87
737	Rational synthesis of Cu-doped porous MnO2 microsphere for high performance supercapacitor applications. *Electrochimica Acta*, **2016**, 191, 716-723	6.7	43
736	The Challenge to Develop Metrology at the Nanoscale. **2016**, 105-130		
735	Cr-doped MnO2 nanostructure: morphology evolution and electrochemical properties. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 3265-3270	2.1	17
734	Highly ordered, polypyrrole-coated Co(OH)2 architectures for high-performance asymmetric supercapacitors. *Journal of Materials Chemistry A*, **2016**, 4, 6603-6609	13	46
733	Large and porous carbon sheets derived from water hyacinth for high-performance supercapacitors. **2016**, 6, 29996-30003		35
732	Electrode materials with tailored facets for electrochemical energy storage. **2016**, 1, 272-289		75
731	Recent progress in the development of anodes for asymmetric supercapacitors. *Journal of Materials Chemistry A*, **2016**, 4, 4634-4658	13	132

730	Flexible electrodes and supercapacitors for wearable energy storage: a review by category. *Journal of Materials Chemistry A*, **2016**, 4, 4659-4685	13	412
729	An excellent cycle performance of asymmetric supercapacitor based on bristles like MnO2 nanoparticles grown on multiwalled carbon nanotubes. *Journal of Power Sources*, **2016**, 309, 212-220	8.9	65
728	Layered-MnO Nanosheet Grown on Nitrogen-Doped Graphene Template as a Composite Cathode for Flexible Solid-State Asymmetric Supercapacitor. *ACS Applied Materials & Interfaces*, **2016**, 8, 5251-60	9.5	168
727	Facile growth of Bi2MoO6 nanosheet arrays on Ni foam as an electrode for electrochemical applications. **2016**, 6, 12093-12099		17
726	Hierarchical Manganese Dioxide/Poly(3,4-ethylenedioxythiophene) Core Shell Nanoflakes on Ramie-Derived Carbon Fiber for High-Performance Flexible All-Solid-State Supercapacitor. **2016**, 4, 1201-1211		71
725	Synthetic approach from polypyrrole nanotubes to nitrogen doped pyrolyzed carbon nanotubes for asymmetric supercapacitors. *Journal of Power Sources*, **2016**, 308, 158-165	8.9	142
724	Improved Energy Storage Performance Based on Gamma-Ray Irradiated Activated Carbon Cloth. *Electrochimica Acta*, **2016**, 191, 908-915	6.7	32
723	Review on advances in porous nanostructured nickel oxides and their composite electrodes for high-performance supercapacitors. *Journal of Power Sources*, **2016**, 308, 121-140	8.9	177
722	A modularization approach for linear-shaped functional supercapacitors. *Journal of Materials Chemistry A*, **2016**, 4, 4580-4586	13	42
721	Three-dimensional iron oxyhydroxide/reduced graphene oxide composites as advanced electrode for electrochemical energy storage. **2016**, 103, 56-62		22
720	Electrochromic energy storage devices. **2016**, 19, 394-402		293
719	Synthesis of Fe2O3 Ni(OH)2/graphene nanocomposite by one-step hydrothermal method for high-performance supercapacitor. **2016**, 51, 2877-2885		14
718	Synthesis of nanostructured Cu-WO3 and CuWO4 for supercapacitor applications. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 2926-2932	2.1	22
717	Engineering of three dimensional (3-D) diatom@TiO2@MnO2 composites with enhanced supercapacitor performance. *Electrochimica Acta*, **2016**, 190, 159-167	6.7	76
716	FeCo2O4 submicron-tube arrays grown on Ni foam as high rate-capability and cycling-stability electrodes allowing superior energy and power densities with symmetric supercapacitors. **2016**, 52, 2624-7		100
715	Electrochemical improvement due to alignment of carbon nanofibers fabricated by electrospinning as an electrode for supercapacitor. **2016**, 99, 607-618		70
714	Hierarchical FeS2 nanosheet@Fe2O3 nanosphere heterostructure as promising electrode material for supercapacitors. **2016**, 166, 223-226		42
713	Charge storage in KCu7S4 as redox active material for a flexible all-solid-state supercapacitor. **2016** , 19, 363-372		60

712	Temperature-dependent electrochemical capacitive performance of the □Fe2O3 hollow nanoshuttles as supercapacitor electrodes. **2016**, 466, 291-6		67
711	Atomistic Insights into the Oriented Attachment of Tunnel-Based Oxide Nanostructures. **2016**, 10, 539-48		58
710	Ni nanoparticle doped porous VN nanoflakes assembled into hierarchical hollow microspheres with a structural inheritance from the Ni1□VxO2 cathode material for high performance asymmetric supercapacitors. *Journal of Materials Chemistry A*, **2016**, 4, 2158-2168	13	40
709	MnO2 nanowires decorated with Au ultrasmall nanoparticles for the green oxidation of silanes and hydrogen production under ultralow loadings. **2016**, 184, 35-43		49
708	Solid-State Thin-Film Supercapacitors with Ultrafast Charge/Discharge Based on N-Doped-Carbon-Tubes/Au-Nanoparticles-Doped-MnO2 Nanocomposites. *Nano Letters*, **2016**, 16, 40-7	11.5	141
707	Polypyrrole-coated hierarchical porous composites nanoarchitectures for advanced solid-state flexible hybrid devices. **2016**, 19, 307-317		26
706	3D self-supported nanopine forest-like Co3O4@CoMoO4 core□hell architectures for high-energy solid state supercapacitors. **2016**, 19, 222-233		262
705	Three-dimensionally grown thorn-like Cu nanowire arrays by fully electrochemical nanoengineering for highly enhanced hydrazine oxidation. *Nanoscale*, **2016**, 8, 5810-4	7.7	43
704	MnO nanomaterials for flexible supercapacitors: performance enhancement via intrinsic and extrinsic modification. **2016**, 1, 109-124		74
703	Asymmetric supercapacitors with high energy density based on helical hierarchical porous Na MnO and MoO. **2016**, 7, 510-517		80
702	Hierarchical Ni-Co layered double hydroxide nanosheets entrapped on conductive textile fibers: a cost-effective and flexible electrode for high-performance pseudocapacitors. *Nanoscale*, **2016**, 8, 812-25	7.7	261
701	Assembly of flexible CoMoO@NiMoO□xHO and FeO electrodes for solid-state asymmetric supercapacitors. **2017**, 7, 41088		63
700	Bi-functional flexible electrodes based on tungsten trioxide/zinc oxide nanocomposites for electrochromic and energy storage applications. *Electrochimica Acta*, **2017**, 227, 61-68	6.7	61
699	Facile synthesis of rod-like manganese molybdate crystallines with two-dimentional nanoflakes for supercapacitor application. *Electrochimica Acta*, **2017**, 225, 605-613	6.7	32
698	All-wood, low tortuosity, aqueous, biodegradable supercapacitors with ultra-high capacitance. **2017**, 10, 538-545		451
697	One-pot synthesis of hierarchical Bi2S3-MoS2 nanosheet array with high electrochemical performance. *Journal of Power Sources*, **2017**, 342, 921-928	8.9	23
696	Well-Ordered Oxygen-Deficient CoMoO and FeO Nanoplate Arrays on 3D Graphene Foam: Toward Flexible Asymmetric Supercapacitors with Enhanced Capacitive Properties. *ACS Applied Materials & Interfaces*, **2017**, 9, 6044-6053	9.5	148
695	Materials Design and System Construction for Conventional and New-Concept Supercapacitors. *Advanced Science*, **2017**, 4, 1600382	13.6	289

694	Symmetric transparent and flexible supercapacitor based on bio-inspired graphene-wrapped FeO nanowire networks. **2017**, 28, 075402		20
693	3D Porous Nanoarchitectures Derived from SnS/S-Doped Graphene Hybrid Nanosheets for Flexible All-Solid-State Supercapacitors. *Small*, **2017**, 13, 1603494	11	47
692	Fabrication of mesoporous gold networks@MnO2 for high-performance supercapacitors. **2017**, 50, 61-68		7
691	A novel fluffy nanostructured 3D network of Ni(C7H4O5) for supercapacitors. *Electrochimica Acta*, **2017**, 230, 141-150	6.7	1
690	Surviving High-Temperature Calcination: ZrO -Induced Hematite Nanotubes for Photoelectrochemical Water Oxidation. **2017**, 56, 4150-4155		104
689	Uniformly Dispersed ZnFeO Nanoparticles on Nitrogen-Modified Graphene for High-Performance Supercapacitor as Electrode. **2017**, 7, 43116		72
688	Waterproof, Ultrahigh Areal-Capacitance, Wearable Supercapacitor Fabrics. **2017**, 29, 1606679		249
687	Surviving High-Temperature Calcination: ZrO2-Induced Hematite Nanotubes for Photoelectrochemical Water Oxidation. **2017**, 129, 4214-4219		35
686	High performance asymmetric supercapacitor twisted from carbon fiber/MnO2 and carbon fiber/MoO3. **2017**, 116, 470-478		181
685	MnO/g-CN nanocomposite with highly enhanced supercapacitor performance. **2017**, 28, 135705		62
684	Development of novel and ultrahigh-performance asymmetric supercapacitor based on redox electrode-electrolyte system. *Electrochimica Acta*, **2017**, 231, 495-501	6.7	15
683	X-ray Absorption Spectroscopic Study on Interfacial Electronic Properties of FeOOH/Reduced Graphene Oxide for Asymmetric Supercapacitors. **2017**, 5, 3186-3194		13
682	Direct anodic exfoliation of graphite onto high-density aligned graphene for large capacity supercapacitors. **2017**, 34, 515-523		49
681	Asymmetric Supercapacitor Electrodes and Devices. **2017**, 29, 1605336		600
680	Fe2O3 Nanoneedles on Ultrafine Nickel Nanotube Arrays as Efficient Anode for High-Performance Asymmetric Supercapacitors. **2017**, 27, 1606728		236
679	Highly flexible all-solid-state cable-type supercapacitors based on Cu/reduced graphene oxide/manganese dioxide fibers. **2017**, 7, 10092-10099		22
678	Urchin-like NiCo2O4 hollow microspheres and FeSe2 micro-snowflakes for flexible solid-state asymmetric supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 5568-5576	13	113
677	Facile synthesis of MnO2-Ni(OH)2 3D Ridge-like Porous Electrode Materials by Seed-induce Method for High-performance Asymmetric Supercapacitor. *Electrochimica Acta*, **2017**, 233, 26-35	6.7	43

676	Low-crystalline iron oxide hydroxide nanoparticle anode for high-performance supercapacitors. **2017**, 8, 14264		452
675	Recent progresses in high-energy-density all pseudocapacitive-electrode-materials-based asymmetric supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 9443-9464	13	218
674	Flexible Asymmetric Threadlike Supercapacitors Based on NiCo Se Nanosheet and NiCo O /Polypyrrole Electrodes. **2017**, 10, 1427-1435		43
673	Multiscale Pore Network Boosts Capacitance of Carbon Electrodes for Ultrafast Charging. *Nano Letters*, **2017**, 17, 3097-3104	11.5	206
672	Facile synthesis of copper sulfides with different shapes for high-performance supercapacitors. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 10720-10729	2.1	8
671	From natural cotton thread to sewable energy dense supercapacitors. *Nanoscale*, **2017**, 9, 6406-6416	7.7	13
670	Hydrothermal vs electrodeposition: How does deposition method affect the electrochemical capacitor performance of manganese dioxide?. **2017**, 43, 8963-8969		7
669	High energy density transparent and flexible asymmetric supercapacitor based on a transparent metal hydroxides@graphene micro-structured film via a scalable gas-liquid diffusion method. **2017**, 712, 194-203		16
668	3D Porous Graphene Nanostructure from a Simple, Fast, Scalable Process for High Performance Flexible Gel-Type Supercapacitors. **2017**, 5, 4457-4467		28
667	Construction and Performance Characterization of □Fe2O3/rGO Composite for Long-Cycling-Life Supercapacitor Anode. **2017**, 5, 5067-5074		66
666	Nitrogen-doped reduced graphene oxide intertwined with V2O3 nanoflakes as self-supported electrodes for flexible all-solid-state supercapacitors. **2017**, 7, 25732-25739		20
665	MnO2 nanograsses on porous carbon cloth for flexible solid-state asymmetric supercapacitors with high energy density. **2017**, 8, 127-133		71
664	Cobalt phosphide nanowire arrays grown on carbon cloth as novel electrode material for supercapacitors. **2017**, 66, 140-143		12
663	Three-Dimensional Cobalt Phosphide Nanowire Arrays as Negative Electrode Material for Flexible Solid-State Asymmetric Supercapacitors. *ACS Applied Materials & Interfaces*, **2017**, 9, 16986-16994	9.5	90
662	Recent progress of fiber-shaped asymmetric supercapacitors. **2017**, 5, 1-14		51
661	Nanosized core□shell structured graphene□MnO2 nanosheet arrays as stable electrodes for superior supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 10678-10686	13	43
660	Ultrathin and Highly Crystalline Co3O4 Nanosheets In Situ Grown on Graphene toward Enhanced Supercapacitor Performance. **2017**, 4, 1600884		27
659	Flexible high-energy asymmetric supercapacitors based on MnO@C composite nanosheet electrodes. *Journal of Materials Chemistry A*, **2017**, 5, 804-813	13	42

658	Foldable All-Solid-State Supercapacitors Integrated with Photodetectors. **2017**, 27, 1604639		69
657	General Controlled Sulfidation toward Achieving Novel Nanosheet-Built Porous Square-FeCo2S4-Tube Arrays for High-Performance Asymmetric All-Solid-State Pseudocapacitors. **2017**, 7, 1601985		191
656	Efficient Production of Coaxial Core–Shell Nanopipes for Sustainable Electrochemical Energy Storage Applications. **2017**, 5, 6288-6296		25
655	A Wire-Shaped Supercapacitor in Micrometer Size Based on FeO Nanosheet Arrays on Fe Wire. **2017**, 9, 46		48
654	Performance comparison of NiCo 2 O 4 and NiCo 2 S 4 formed on Ni foam for supercapacitor. **2017**, 123, 28-33		31
653	High-Performance 2.6 V Aqueous Asymmetric Supercapacitors based on In Situ Formed Na MnO Nanosheet Assembled Nanowall Arrays. **2017**, 29, 1700804		411
652	A fiber asymmetric supercapacitor based on FeOOH/PPy on carbon fibers as an anode electrode with high volumetric energy density for wearable applications. *Nanoscale*, **2017**, 9, 10794-10801	7.7	100
651	Electrochemical capacitor performance of TiO2 nanostructures and porous MnO2 composite supported on carbon fiber paper. **2017**, 43, 10595-10600		7
650	Silicon Nanowire/Polymer Hybrid Solar Cell-Supercapacitor: A Self-Charging Power Unit with a Total Efficiency of 10.5. *Nano Letters*, **2017**, 17, 4240-4247	11.5	106
649	High Electroactive Material Loading on a Carbon Nanotube@3D Graphene Aerogel for High-Performance Flexible All-Solid-State Asymmetric Supercapacitors. **2017**, 27, 1701122		125
648	High performance solid-state flexible supercapacitor based on Fe3O4/carbon nanotube/polyaniline ternary films. *Journal of Materials Chemistry A*, **2017**, 5, 11271-11277	13	93
647	Se doping: an effective strategy toward Fe2O3 nanorod arrays for greatly enhanced solar water oxidation. *Journal of Materials Chemistry A*, **2017**, 5, 12086-12090	13	69
646	From biomass with irregular structures to 1D carbon nanobelts: a stripping and cutting strategy to fabricate high performance supercapacitor materials. *Journal of Materials Chemistry A*, **2017**, 5, 14551-14561	13	81
645	Honeycomb-like composite structure for advanced solid state asymmetric supercapacitors. **2017**, 326, 518-527		33
644	Capacitance and voltage matching between MnO2 nanoflake cathode and Fe2O3 nanoparticle anode for high-performance asymmetric micro-supercapacitors. **2017**, 10, 2471-2481		75
643	Bifunctional 2D-on-2D MoO3 nanobelt/Ni(OH)2 nanosheets for supercapacitor-driven electrochromic energy storage. *Journal of Materials Chemistry A*, **2017**, 5, 8343-8351	13	81
642	Boosting the Energy Density of Carbon-Based Aqueous Supercapacitors by Optimizing the Surface Charge. **2017**, 129, 5546-5551		46
641	Boosting the Energy Density of Carbon-Based Aqueous Supercapacitors by Optimizing the Surface Charge. **2017**, 56, 5454-5459		234

640	Advanced negative electrode of Fe 2 O 3 /graphene oxide paper for high energy supercapacitors. **2017**, 96, 413-418		18
639	High performance flexible asymmetric CNO-ZnO//ZnO supercapacitor with an operating voltage of 1.8 V in aqueous medium. **2017**, 7, 212-221		31
638	Diatom silica, an emerging biomaterial for energy conversion and storage. *Journal of Materials Chemistry A*, **2017**, 5, 8847-8859	13	60
637	Porous Functionalized Self-Standing Carbon Fiber Paper Electrodes for High-Performance Capacitive Energy Storage. *ACS Applied Materials & Interfaces*, **2017**, 9, 13173-13180	9.5	27
636	Decoration of carbon cloth by manganese oxides for flexible asymmetric supercapacitors. **2017**, 43, 8321-8328		26
635	Optimization of Fe2O3@Fe3O4 incorporated N-TiO2 as super effective photocatalysts under visible light irradiation. **2017**, 412, 668-682		34
634	Design of a unique 3D-nanostructure to make MnO2 work as supercapacitor material in acid environment. **2017**, 321, 554-563		35
633	Electrochemical synthesis of MnO2 porous nanowires for flexible all-solid-state supercapacitor. **2017**, 41, 3750-3757		21
632	Transition metal oxides with one-dimensional/one-dimensional-analogue nanostructures for advanced supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 8155-8186	13	317
631	An all-solid-state, lightweight, and flexible asymmetric supercapacitor based on cabbage-like ZnCo2O4 and porous VN nanowires electrode materials. *Journal of Materials Chemistry A*, **2017**, 5, 6928-6936	13	66
630	A Cost-Effective and High-Performance Core-Shell-Nanorod-Based ZnO/Fe2O3//ZnO/C Asymmetric Supercapacitor. **2017**, 164, A987-A994		20
629	Facile Synthesis of Free-Standing NiO/MnO Core-Shell Nanoflakes on Carbon Cloth for Flexible Supercapacitors. **2017**, 12, 171		34
628	MoO3-rGO nanocomposites for electrochemical energy storage. **2017**, 418, 2-8		42
627	Three-Dimensional Fibrous Network of Na MnO for Aqueous Sodium-Ion Hybrid Supercapacitors. **2017**, 23, 2379-2386		51
626	Recent advances in multifunctional electrochromic energy storage devices and photoelectrochromic devices. **2017**, 60, 13-37		57
625	Serpent-cactus-like Co-doped Ni(OH)2/Ni3S2 hierarchical structure composed of ultrathin nanosheets for use in efficient asymmetric supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 1603-1613	13	81
624	Ultrafast charge/discharge solid-state thin-film supercapacitors via regulating the microstructure of transition-metal-oxide. *Journal of Materials Chemistry A*, **2017**, 5, 2759-2767	13	36
623	Renewable-emodin-based wearable supercapacitors. *Nanoscale*, **2017**, 9, 1423-1427	7.7	14

622	Gold nanoparticles decorated MnO2 nanowires for high performance supercapacitor. **2017**, 418, 22-29		43
621	Constructing Hierarchical Tectorum-like Fe2O3/PPy Nanoarrays on Carbon Cloth for Solid-State Asymmetric Supercapacitors. **2017**, 129, 1125-1130		71
620	Constructing Hierarchical Tectorum-like Fe O /PPy Nanoarrays on Carbon Cloth for Solid-State Asymmetric Supercapacitors. **2017**, 56, 1105-1110		247
619	In Situ Atomic-Scale Probing of the Reduction Dynamics of Two-Dimensional FeO Nanostructures. **2017**, 11, 656-664		14
618	Self-Supporting GaN Nanowires/Graphite Paper: Novel High-Performance Flexible Supercapacitor Electrodes. *Small*, **2017**, 13, 1603330	11	49
617	Multidimensional Cyclic Voltammetry Simulations of Pseudocapacitive Electrodes with a Conducting Nanorod Scaffold. **2017**, 164, A3237-A3252		13
616	High-energy, flexible micro-supercapacitors by one-step laser fabrication of a self-generated nanoporous metal/oxide electrode. *Journal of Materials Chemistry A*, **2017**, 5, 24585-24593	13	58
615	Facile Synthesis of Mn3O4 Nanoplates-Anchored Graphene Microspheres and Their Applications for Supercapacitors. *Electrochimica Acta*, **2017**, 257, 155-164	6.7	33
614	Fe3O4/biocarbon composites with superior performance in supercapacitors. **2017**, 804, 232-239		24
613	Carbon modified transition metal oxides/hydroxides nanoarrays toward high-performance flexible all-solid-state supercapacitors. **2017**, 41, 408-416		86
612	Facile fabrication of hierarchical porous carbon for a high-performance electrochemical capacitor. **2017**, 7, 46329-46335		19
611	General Metal-Ion Mediated Method for Functionalization of Graphene Fiber. *ACS Applied Materials & Interfaces*, **2017**, 9, 37022-37030	9.5	19
610	A novel high-performance electrode architecture for supercapacitors: Fe2O3 nanocube and carbon nanotube functionalized carbon. *Journal of Materials Chemistry A*, **2017**, 5, 22648-22653	13	7
609	High-performance MnO-deposited graphene/activated carbon film electrodes for flexible solid-state supercapacitor. **2017**, 7, 12857		52
608	Facile synthesis of CuFe2O4Fe2O3 composite for high-performance supercapacitor electrode applications. **2017**, 4, 105501		15
607	3D hierarchical porous cobalt monoxide nanoplates with a book-like structure derived from Co(CO3)0.5(OH)0.11H2O: two-steps oriented attachment and high-performance asymmetric supercapacitors. **2017**, 4, 106303		2
606	Cobalt hexacyanoferrate nanoparticles and MoO 3 thin films grown on carbon fiber cloth for efficient flexible hybrid supercapacitor. *Journal of Power Sources*, **2017**, 370, 98-105	8.9	39
605	The Pine-Needle-Inspired Structure of Zinc Oxide Nanorods Grown on Electrospun Nanofibers for High-Performance Flexible Supercapacitors. *Small*, **2017**, 13, 1702142	11	26

604	A novel Ni Coordination Supramolecular Network hybrid monolith of 3D graphene as electrode materials for supercapacitors. **2017**, 6, 164-172		9
603	Binder-free WS2 nanosheets with enhanced crystallinity as a stable negative electrode for flexible asymmetric supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 21460-21466	13	58
602	Highly Ordered, Ultralong Mn-Based Nanowire Films with Low Contact Resistance as Freestanding Electrodes for Flexible Supercapacitors with Enhanced Performance. *ChemElectroChem*, **2017**, 4, 3061-3067	4.3	4
601	Fe2O3-Based Core-Shell-Nanorod-Structured Positiveand Negative Electrodes for a High-Performance Fe2O3/C//Fe2O3/MnOxAsymmetric Supercapacitor. **2017**, 164, A2707-A2715		21
600	Flexible supercapacitor electrodes based on real metal-like cellulose papers. **2017**, 8, 536		237
599	Recent advances in chemical methods for activating carbon and metal oxide based electrodes for supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 17151-17173	13	110
598	Flexible carbon nanofiber mats with improved graphitic structure as scaffolds for efficient all-solid-state supercapacitor. *Electrochimica Acta*, **2017**, 247, 1060-1071	6.7	22
597	Flexible Ti-Doped FeOOH Quantum Dots/Graphene/Bacterial Cellulose Anode for High-Energy Asymmetric Supercapacitors. **2017**, 34, 1700213		14
596	Novel Core-Shell FeOF/Ni(OH)2 Hierarchical Nanostructure for All-Solid-State Flexible Supercapacitors with Enhanced Performance. **2017**, 27, 1701014		90
595	Engineering Thin MoS2 Nanosheets on TiN Nanorods: Advanced Electrochemical Capacitor Electrode and Hydrogen Evolution Electrocatalyst. **2017**, 2, 1862-1868		134
594	Construction of porous CuCoS nanorod arrays via anion exchange for high-performance asymmetric supercapacitor. **2017**, 7, 6681		75
593	Influence of nanoparticle size on ethanol gas sensing performance of mesoporous Fe2O3 hollow spheres. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2017**, 224, 158-162	3.1	23
592	Synthesis and formation mechanism of micron-size silver flakes with high radius-thickness ratio: application to silver paste. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 16267-16273	2.1	11
591	A Novel Phase-Transformation Activation Process toward Ni-Mn-O Nanoprism Arrays for 2.4 V Ultrahigh-Voltage Aqueous Supercapacitors. **2017**, 29, 1703463		202
590	The Functionalization of Miniature Energy-Storage Devices. **2017**, 1, 1700211		16
589	Weavable, Conductive Yarn-Based NiCo//Zn Textile Battery with High Energy Density and Rate Capability. **2017**, 11, 8953-8961		237
588	Constructing hierarchical dandelion-like molybdenum-nickel-cobalt ternary oxide nanowire arrays on carbon nanotube fiber for high-performance wearable fiber-shaped asymmetric supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 21153-21160	13	48
587	Large-Scale Multifunctional Electrochromic-Energy Storage Device Based on Tungsten Trioxide Monohydrate Nanosheets and Prussian White. *ACS Applied Materials & Interfaces*, **2017**, 9, 29872-29880	8.5	97

586	Facile Electrochemical Fabrication of Porous Fe2O3 Nanosheets for Flexible Asymmetric Supercapacitors. **2017**, 121, 18982-18991		64
585	All-solid-state hybrid supercapacitors based on ZnCo2O4 nanowire arrays and carbon nanorod electrode materials. **2017**, 123, 676-682		33
584	An asymmetric supercapacitor with excellent cycling performance realized by hierarchical porous NiGa2O4 nanosheets. *Journal of Materials Chemistry A*, **2017**, 5, 19046-19053	13	39
583	Carbon-incorporated Janus-type Ni2P/Ni hollow spheres for high performance hybrid supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 19054-19061	13	137
582	Inner porous carbon nanofibers as binder-free electrodes for high-rate supercapacitors. *Electrochimica Acta*, **2017**, 258, 1064-1071	6.7	17
581	Electrodeposited nickel□cobalt sulfide nanosheet on polyacrylonitrile nanofibers: a binder-free electrode for flexible supercapacitors. **2017**, 4, 116309		18
580	Facile synthesis and the enhanced sensing properties of Pt-loaded □Fe2O3 porous nanospheres. **2017**, 252, 1153-1162		42
579	Ultrathin □MnO2 Nanosheets Wrapped on Acanthosphere-like Microspheres with Highly Reversible Performance for Energy Storage. *Electrochimica Acta*, **2017**, 247, 745-753	6.7	8
578	Ostwald Ripening Improves Rate Capability of High Mass Loading Manganese Oxide for Supercapacitors. **2017**, 2, 1752-1759		115
577	Porous □FeO microflowers: Synthesis, structure, and enhanced acetone sensing performances. **2017**, 505, 1039-1046		24
576	High performance asymmetric supercapacitor based on Cobalt Nickle Iron-layered double hydroxide/carbon nanofibres and activated carbon. **2017**, 7, 4707		44
575	A cellulose fibers-supported hierarchical forest-like cuprous oxide/copper array architecture as a flexible and free-standing electrode for symmetric supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 17267-17278	13	48
574	Internal Asymmetric Tandem Supercapacitor for High Working Voltage along with Superior Rate Performance. **2017**, 2, 1720-1728		21
573	Metallic Layered Polyester Fabric Enabled Nickel Selenide Nanostructures as Highly Conductive and Binderless Electrode with Superior Energy Storage Performance. **2017**, 7, 1601362		188
572	Graphene-based materials for high-voltage and high-energy asymmetric supercapacitors. **2017**, 6, 70-97		201
571	A universal strategy for metal oxide anchored and binder-free carbon matrix electrode: A supercapacitor case with superior rate performance and high mass loading. **2017**, 31, 311-321		145
570	Facile synthesis of TiO2/Mn3O4 hierarchical structures for fiber-shaped flexible asymmetric supercapacitors with ultrahigh stability and tailorable performance. *Journal of Materials Chemistry A*, **2017**, 5, 814-821	13	30
569	Evolution of Useless Iron Rust into Uniform □Fe2O3 Nanospheres: A Smart Way to Make Sustainable Anodes for Hybrid Ni□e Cell Devices. **2017**, 5, 269-276		33

568	Rational design of nickel cobalt sulfide/oxide core-shell nanocolumn arrays for high-performance flexible all-solid-state asymmetric supercapacitors. **2017**, 43, 2155-2164		25
567	Electrochemical energy storage performance of heterostructured SnO2@MnO2 nanoflakes. **2017**, 43, 1688-1694		11
566	Scalable Fabrication of Flexible Solid-State Asymmetric Supercapacitors with a Wide Operation Voltage utilizing Printable Carbon Film Electrodes. **2017**, 5, 656-664		6
565	Constructing highly-efficient electron transport channels in the 3D electrode materials for high-rate supercapacitors: The case of NiCo2O4@NiMoO4 hierarchical nanostructures. **2017**, 307, 687-695		70
564	Wearable High-Performance Supercapacitors Based on Silver-Sputtered Textiles with FeCo2S4NiCo2S4 Composite Nanotube-Built Multitripod Architectures as Advanced Flexible Electrodes. **2017**, 7, 1601234		242
563	Interfacial Deposition of Three-Dimensional Nickel Hydroxide Nanosheet-Graphene Aerogel on Ni Wire for Flexible Fiber Asymmetric Supercapacitors. **2017**, 5, 821-827		43
562	Synthesis of novel poly 4,4?-diaminodiphenyl sulphone-Fe2O3 nanocomposites for better electrochemical capacitance. *Ionics*, **2017**, 23, 1249-1257	2.7	5
561	Flexible all-solid-state asymmetric supercapacitor based on transition metal oxide nanorods/reduced graphene oxide hybrid fibers with high energy density. **2017**, 113, 151-158		192
560	Construction of Co3O4@Fe2O3 core-shell nanowire arrays electrode for supercapacitors. **2017**, 729, 1172-1176		49
559	A study on MnCo2S4@NiCo(OH)2 core-shell nanocomposite for high-performance solid-state supercapacitor applications. **2017**,		
558	Understanding Hollow Metal Oxide Nanomaterial Formation with in situ Transmission Electron Microscopy. **2017**, 23, 2066-2067		
557	Electrochemical behaviour of graphene and carbon nanotubes based hybrid polymer composites. **2017**, 211-248		3
556	Hierarchical Fabric Decorated with Carbon Nanowire/Metal Oxide Nanocomposites for 1.6 V Wearable Aqueous Supercapacitors. **2018**, 8, 1703454		112
555	When Al-Doped Cobalt Sulfide Nanosheets Meet Nickel Nanotube Arrays: A Highly Efficient and Stable Cathode for Asymmetric Supercapacitors. **2018**, 12, 3030-3041		148
554	Large-Area Reduced Graphene Oxide Composite Films for Flexible Asymmetric Sandwich and Microsized Supercapacitors. **2018**, 28, 1707247		85
553	Flexible, Swiss roll, fiber-shaped, asymmetric supercapacitor using MnO2 and Fe2O3 on carbon fibers. *Electrochimica Acta*, **2018**, 269, 499-508	6.7	41
552	A Polycarboxyl-Decorated Fe -Based Xerogel-Derived Multifunctional Composite (Fe O /Fe/C) as an Efficient Electrode Material towards Oxygen Reduction Reaction and Supercapacitor Application. **2018**, 24, 6586-6594		8
551	In situ hydrothermal preparation of mesoporous Fe3O4 film for high-performance negative electrodes of supercapacitors. **2018**, 265, 189-194		18

550	Direct growth of vanadium nitride nanosheets on carbon nanotube fibers as novel negative electrodes for high-energy-density wearable fiber-shaped asymmetric supercapacitors. *Journal of Power Sources*, **2018**, 382, 122-127	8.9	53
549	High performance aqueous asymmetric supercapacitor based on iron oxide anode and cobalt oxide cathode. **2018**, 33, 1199-1210		11
548	Hollow NiCo2S4 Nanospheres Hybridized with 3D Hierarchical Porous rGO/Fe2O3 Composites toward High-Performance Energy Storage Device. **2018**, 8, 1703453		125
547	Nanocellulose-Assisted Growth of Manganese Dioxide on Thin Graphite Papers for High-Performance Supercapacitor Electrodes. **2018**, 6, 4739-4745		25
546	High-capacity activated carbon anode material for lithium-ion batteries prepared from rice husk by a facile method. **2018**, 86, 139-145		34
545	Preparation and properties of MnO2□iO2 nanotube array composite electrodes using titanium foam as the current collector. **2018**, 43, 8859-8867		16
544	Tuning the porosity of mesoporous NiO through calcining isostructural Ni-MOFs toward supercapacitor applications. **2018**, 263, 72-78		30
543	Phosphine plasma activation of □Fe2O3 for high energy asymmetric supercapacitors. **2018**, 49, 155-162		123
542	One-Step Synthesis of NiCo2S4/Graphene Composite for Asymmetric Supercapacitors with Superior Performances. *ChemElectroChem*, **2018**, 5, 1576-1585	4.3	32
541	A rationally designed self-standing VO electrode for high voltage non-aqueous all-solid-state symmetric (2.0 V) and asymmetric (2.8 V) supercapacitors. *Nanoscale*, **2018**, 10, 8741-8751	7.7	23
540	Flexible Bimetallic Nanoporous Cu-Ag Synthesized by Electrochemical Dealloying for Battery-Type Electrodes with High Electrochemical Performance. **2018**, 165, A947-A951		4
539	Towards flexible solid-state supercapacitors for smart and wearable electronics. **2018**, 47, 2065-2129		936
538	Enhancing pseudocapacitive kinetics of nanostructured MnO2 through anchoring onto biomass-derived porous carbon. **2018**, 440, 1027-1036		36
537	Flexible fiber-shaped energy storage devices: principles, progress, applications and challenges. **2018**, 3, 013001		24
536	Atomic Layer Co O Nanosheets: The Key to Knittable Zn-Air Batteries. *Small*, **2018**, 14, e1702987	11	51
535	Scalable Fabrication of Supercapacitors by Nozzle-Free Electrospinning. *ACS Applied Energy Materials*, **2018**, 1, 296-300	6.1	17
534	MOF for template-directed growth of well-oriented nanowire hybrid arrays on carbon nanotube fibers for wearable electronics integrated with triboelectric nanogenerators. **2018**, 45, 420-431		121
533	Facile hydrothermal synthesis of BiFeO3 nanoplates for enhanced supercapacitor properties. **2018**, 11, 1850013		12

532	Conducting polypyrrole nanotubes: a review. **2018**, 72, 1563-1595		70
531	Tetsubo-like □Fe2O3/C nanoarrays on carbon cloth as negative electrode for high-performance asymmetric supercapacitors. **2018**, 341, 102-111		66
530	Controllable synthesis of MnO2 nanostructures anchored on graphite foam with different morphologies for a high-performance asymmetric supercapacitor. **2018**, 20, 1690-1697		31
529	Synthesis of NiO/Fe2O3 nanocomposites as substrate for the construction of electrochemical biosensors. **2018**, 22, 1763-1770		1
528	Architecture of Co-layered double hydroxide nanocages/graphene composite electrode with high electrochemical performance for supercapacitor. **2018**, 27, 507-512		31
527	Revealing the Performance Enhancement of Oxygenated Carbonaceous Materials for Vanadium Redox Flow Batteries: Functional Groups or Specific Surface Area?. **2018**, 2, 1700148		18
526	Supercapacitors based on AC/MnO2 deposited onto dip-coated carbon nanofiber cotton fabric electrodes. **2018**, 12, 204-215		50
525	PEDOT coated iron phosphide nanorod arrays as high-performance supercapacitor negative electrodes. **2018**, 54, 794-797		39
524	Hierarchical double-shelled poly(3,4-ethylenedioxythiophene) and MnO 2 decorated Ni nanotube arrays for durable and enhanced energy storage in supercapacitors. *Electrochimica Acta*, **2018**, 264, 46-52	6.7	50
523	Construction of Core-Shell NiMoO@Ni-Co-S Nanorods as Advanced Electrodes for High-Performance Asymmetric Supercapacitors. *ACS Applied Materials & Interfaces*, **2018**, 10, 4662-4671	8.5	151
522	Controlled synthesis and characterization of hybrid Sn-doped Co 3 O 4 nanowires for supercapacitors. **2018**, 216, 248-251		14
521	Hierarchical 3D NiFeO@MnO core-shell nanosheet arrays on Ni foam for high-performance asymmetric supercapacitors. **2018**, 47, 2266-2273		50
520	Surface modulation of NiCo2O4 nanowire arrays with significantly enhanced reactivity for ultrahigh-energy supercapacitors. **2018**, 352, 996-1003		52
519	Self-Generated Nanoporous Silver Framework for High-Performance Iron Oxide Pseudocapacitor Anodes. *ACS Applied Materials & Interfaces*, **2018**, 10, 17223-17231	9.5	15
518	Warm/cool-tone switchable thermochromic material for smart windows by orthogonally integrating properties of pillar[6]arene and ferrocene. **2018**, 9, 1737		113
517	High Mass Loading MnO with Hierarchical Nanostructures for Supercapacitors. **2018**, 12, 3557-3567		305
516	Large scale production of polyacrylonitrile-based porous carbon nanospheres for asymmetric supercapacitors. *Journal of Materials Chemistry A*, **2018**, 6, 6891-6903	13	18
515	Helical carbon tubes derived from epitaxial Cu-MOF coating on textile for enhanced supercapacitor performance. **2018**, 47, 5558-5563		20

514	Electrospun N-Doped Porous Carbon Nanofibers Incorporated with NiO Nanoparticles as Free-Standing Film Electrodes for High-Performance Supercapacitors and CO Capture. *Small*, **2018**, 14, e1704203	11	51
513	Plumage-like MnO2@NiCo2O4 core–shell architectures for high-efficiency energy storage: the synergistic effect of ultralong MnO2 “scaffold” and ultrathin NiCo2O4 “fluff” *Ionics*, **2018**, 24, 3227-3235	2.7	3
512	Porous Co3S4@Ni3S4 heterostructure arrays electrode with vertical electrons and ions channels for efficient hybrid supercapacitor. **2018**, 343, 572-582		120
511	One-step synthesis of MnS/MoS/C through the calcination and sulfurization of a bi-metal-organic framework for a high-performance supercapacitor and its photocurrent investigation. **2018**, 47, 5390-5405		44
510	Asymmetric supercapacitor based on MnO2 and Fe2O3 nanotube active materials and graphene current collectors. **2018**, 15, 98-106		17
509	2D Metal-Organic Frameworks Derived Nanocarbon Arrays for Substrate Enhancement in Flexible Supercapacitors. *Small*, **2018**, 14, e1702641	11	63
508	A non-polarity flexible asymmetric supercapacitor with nickel nanoparticle@ carbon nanotube three-dimensional network electrodes. **2018**, 11, 75-82		62
507	Synthesis of hollow NiCoO nanospheres with large specific surface area for asymmetric supercapacitors. **2018**, 511, 456-462		118
506	Porous worm-like NiMoO4 coaxially decorated electrospun carbon nanofiber as binder-free electrodes for high performance supercapacitors and lithium-ion batteries. **2018**, 434, 49-56		48
505	High-performance flexible all-solid-state asymmetric supercapacitors from nanostructured electrodes prepared by oxidation-assisted dealloying protocol. **2018**, 331, 527-535		100
504	Hierarchical ferric-cobalt-nickel ternary oxide nanowire arrays supported on graphene fibers as high-performance electrodes for flexible asymmetric supercapacitors. **2018**, 11, 1775-1786		41
503	Discharge voltage behavior of electric double-layer capacitors during high-g impact and their application to autonomously sensing high-g accelerometers. **2018**, 11, 1146-1156		13
502	Facile synthesis of Co(OH)2/Al(OH)3 nanosheets with improved electrochemical properties for asymmetric supercapacitor. **2018**, 112, 54-60		24
501	Hierarchical hollow MnO nanofibers with enhanced supercapacitor performance. **2018**, 513, 448-454		73
500	Interface polarization matters: Enhancing supercapacitor performance of spinel NiCo2O4 nanowires by reduced graphene oxide coating. *Electrochimica Acta*, **2018**, 260, 814-822	6.7	70
499	. **2018**, 6, 300-310		21
498	Recent Smart Methods for Achieving High-Energy Asymmetric Supercapacitors. **2018**, 2, 1700230		122
497	A general in-situ etching and synchronous heteroatom doping strategy to boost the capacitive performance of commercial carbon fiber cloth. **2018**, 335, 638-646		26

496	Carbon nanotubes: A potential material for energy conversion and storage. **2018**, 64, 219-253		129
495	Hierarchically nanostructured transition metal oxides for supercapacitors. **2018**, 61, 185-209		58
494	Synthesis of Cu2O by oxidation-assisted dealloying method for flexible all-solid-state asymmetric supercapacitors. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 2080-2090	2.1	17
493	PVP-assisted enhancement in ion storage performance of sol-gel derived nano-structured NiCo2O4 thin films as battery-type electrode. **2018**, 99, 336-342		17
492	Functionalized seaweed-derived graphene/polyaniline nanocomposite as efficient energy storage electrode. **2018**, 48, 37-48		9
491	Urchin-like FeOOH hollow microspheres decorated with MnO2 for enhanced supercapacitor performance. **2018**, 61, 48-56		15
490	Facile synthesis of a nitrogen-doped graphene flower-like MnO2 nanocomposite and its application in supercapacitors. **2018**, 427, 986-993		89
489	High rate and stable symmetric potassium ion batteries fabricated with flexible electrodes and solid-state electrolytes. *Nanoscale*, **2018**, 10, 20754-20760	7.7	16
488	A high performance asymmetric supercapacitor based on in situ prepared CuCoO nanowires and PPy nanoparticles on a two-ply carbon nanotube yarn. **2018**, 47, 17146-17152		18
487	Optimized NiCoO/rGO hybrid nanostructures on carbon fiber as an electrode for asymmetric supercapacitors.. **2018**, 8, 37550-37556		20
486	3D macro-micro-mesoporous FeC2O4/graphene hydrogel electrode for high-performance 2.5 V aqueous asymmetric supercapacitors. **2018**, 31, 707-716		7
485	Mixed-Phase MnO□N-Containing Graphene Composites Applied as Electrode Active Materials for Flexible Asymmetric Solid-State Supercapacitors. **2018**, 8,		9
484	General Approach of in Situ Etching and Doping To Synthesize a Nickel-Doped MxOy (M = Co, Mn, Fe) Nanosheets Array on Nickel Foam as Large-Sized Electrodes for Overall Water Splitting. *ACS Applied Energy Materials*, **2018**, 1, 6279-6287	6.1	23
483	Tuning Hierarchical Ferric Nanostructures-Decorated Diatomite for Supercapacitors. **2018**, 13, 407		0
482	Electrochemical Performance of Iron Oxide Nanoflakes on Carbon Cloth under an External Magnetic Field. **2018**, 8, 939		4
481	Tip-welded ferric-cobalt sulfide hollow nanoneedles on highly conductive carbon fibers for advanced asymmetric supercapacitors. *Electrochimica Acta*, **2018**, 292, 157-167	6.7	10
480	Enhanced capacitive performance of nickel oxide on porous La0□7Sr0□3CoO3-□ceramic substrate for electrochemical capacitors. **2018**, 43, 19589-19599		10
479	Macroporous defective tungsten oxide nanostructure electrodes deliver ultrahigh capacitance and remarkable long cyclic durability in LiCl electrolyte. **2018**, 44, 22718-22724		2

478	Advances in Flexible Supercapacitors for Portable and Wearable Smart Gadgets. **2018**, 209-246		4
477	Shape engineered three dimensional Fe2O3-activated carbon nano composite as enhanced electrochemical supercapacitor electrode material. *International Journal of Energy Research*, **2018**, 42, 4687-4696	4.5	8
476	Self-assembled MXene(Ti3C2Tx)/Fe2O3 nanocomposite as negative electrode material for supercapacitors. *Electrochimica Acta*, **2018**, 292, 31-38	6.7	53
475	Facile Synthesis of Na-Doped MnO Nanosheets on Carbon Nanotube Fibers for Ultrahigh-Energy-Density All-Solid-State Wearable Asymmetric Supercapacitors. *ACS Applied Materials & Interfaces*, **2018**, 10, 37233-37241	9.5	39
474	All-Metal-Organic Framework-Derived Battery Materials on Carbon Nanotube Fibers for Wearable Energy-Storage Device. *Advanced Science*, **2018**, 5, 1801462	13.6	64
473	Metal oxides in supercapacitors. **2018**, 169-203		16
472	Intertwined Titanium Carbide MXene within a 3 D Tangled Polypyrrole Nanowires Matrix for Enhanced Supercapacitor Performances. **2019**, 25, 1037-1043		32
471	Metal-Organic Framework Derived Spindle-like Carbon Incorporated FeO Grown on Carbon Nanotube Fiber as Anodes for High-Performance Wearable Asymmetric Supercapacitors. **2018**, 12, 9333-9341		198
470	Design and Mechanisms of Asymmetric Supercapacitors. *Chemical Reviews*, **2018**, 118, 9233-9280	68.1	1396
469	Sheet-membrane Mn-doped nickel hydroxide encapsulated via heterogeneous Ni3S2 nanoparticles for efficient alkaline batterysupercapacitor hybrid devices. *Journal of Materials Chemistry A*, **2018**, 6, 19020-19029	13	40
468	Flexible Asymmetric Supercapacitors with Ultrahigh Energy Density through Synergistic Design of Electrodes. *Advanced Science*, **2018**, 5, 1800784	13.6	30
467	Na+Intercalated Manganese Dioxide/MOF-Derived Nanoporous Carbon Hybrid Electrodes for Supercapacitors with High Rate Performance and Cyclic Stability. **2018**, 165, A2815-A2823		5
466	Efficient and scalable synthesis of highly aligned and compact two-dimensional nanosheet films with record performances. **2018**, 9, 3484		88
465	4.2 V wearable asymmetric supercapacitor devices based on a VOx//MnOx paper electrode and an eco-friendly deep eutectic solvent-based gel electrolyte. *Journal of Materials Chemistry A*, **2018**, 6, 20686-20694	13	27
464	Janus nanoarchitectures: From structural design to catalytic applications. **2018**, 22, 62-82		93
463	Shell-Induced Ostwald Ripening: Simultaneous Structure, Composition, and Morphology Transformations during the Creation of Hollow Iron Oxide Nanocapsules. **2018**, 12, 9051-9059		30
462	Facile and fast microwave-assisted fabrication of activated and porous carbon cloth composites with graphene and MnO2 for flexible asymmetric supercapacitors. *Electrochimica Acta*, **2018**, 280, 9-16	6.7	54
461	Metal-organic framework derived Fe2O3 nanocubes on intertwined N-doped carbon nanowires for fiber-shaped supercapacitor. **2018**, 228, 9-12		20

460	A flexible rechargeable quasi-solid-state Ni□e battery based on surface engineering exhibits high energy and long durability. **2018**, 5, 1805-1815		13
459	Conformal Multifunctional Titania Shell on Iron Oxide Nanorod Conversion Electrode Enables High Stability Exceeding 30 000 Cycles in Aqueous Electrolyte. **2018**, 28, 1800497		51
458	One-step and low-temperature synthesis of CoMoO4 nanowire arrays on Ni foam for asymmetric supercapacitors. *Ionics*, **2018**, 24, 3967-3973	2.7	17
457	Flux-Mediated Topochemical Growth of Platelet-Shaped Perovskite LiNbO3 Single Crystals from Layered Potassium Niobate Crystals. *Crystal Growth and Design*, **2018**, 18, 4111-4116	3.5	3
456	Hierarchical carbon-decorated Fe3O4 on hollow CuO nanotube array: Fabrication and used as negative material for ultrahigh-energy density hybrid supercapacitor. **2018**, 349, 491-499		52
455	Ternary composite solid-state flexible supercapacitor based on nanocarbons/manganese dioxide/PEDOT:PSS fibres. **2018**, 155, 194-202		24
454	All-printed ultraflexible and stretchable asymmetric in-plane solid-state supercapacitors (ASCs) for wearable electronics. *Journal of Power Sources*, **2018**, 397, 59-67	8.9	52
453	Facile synthesis of hexagonal single-crystalline ZnCo2O4 nanosheet arrays assembled by mesoporous nanosheets as electrodes for high-performance electrochemical capacitors and gas sensors. **2018**, 457, 1103-1109		14
452	Electrochromic Metal Oxides: Recent Progress and Prospect. **2018**, 4, 1800185		114
451	Carbon and Metal Oxides Based Nanomaterials for Flexible High Performance Asymmetric Supercapacitors. **2018**,		3
450	Synthesis and characterization of polypyrrole/nickel hydroxide/sulfonated graphene oxide ternary composite for all-solid-state asymmetric supercapacitor. *Electrochimica Acta*, **2018**, 283, 467-477	6.7	22
449	All-in-One Compact Architecture toward Wearable All-Solid-State, High-Volumetric-Energy-Density Supercapacitors. *ACS Applied Materials & Interfaces*, **2018**, 10, 23834-23841	9.5	18
448	Highly sensitive and selective butanol sensors using the intermediate state nanocomposites converted from □FeOOH to □Fe2O3. **2018**, 273, 543-551		40
447	Boosting Electrochemistry of Manganese Oxide Nanosheets by Ostwald Ripening during Reduction for Fiber Electrochemical Energy Storage Device. *ACS Applied Materials & Interfaces*, **2018**, 10, 30388-30399	9.5	31
446	Engineering of Mesoscale Pores in Balancing Mass Loading and Rate Capability of Hematite Films for Electrochemical Capacitors. **2018**, 8, 1801784		67
445	A novel lithium-ion hybrid capacitor based on an aerogel-like MXene wrapped Fe2O3 nanosphere anode and a 3D nitrogen sulphur dual-doped porous carbon cathode. **2018**, 2, 1811-1821		40
444	Ni3S2 nanorods and three-dimensional reduced graphene oxide electrodes-based high-performance all-solid-state flexible asymmetric supercapacitors. **2018**, 458, 656-664		14
443	Metal-organic framework-templated synthesis of sulfur-doped core-sheath nanoarrays and nanoporous carbon for flexible all-solid-state asymmetric supercapacitors. *Nanoscale*, **2018**, 10, 15454-15461	7.7	41

442	Synthesis and evolution of □Fe2O3 nanorods for enhanced visible-light-driven photocatalysis. **2018**, 53, 15850-15858		6
441	Facile and scalable fabrication of graphene/polypyrrole/MnOx/Cu(OH)2 composite for high-performance supercapacitors. **2018**, 22, 3317-3329		8
440	A pseudocapacitive asymmetric supercapacitor assembled by hollow NiCo2O4 hierarchical micro-spheres and nickel-loaded hollow VN hierarchical micro-flowers. **2018**, 324, 168-175		7
439	Amino acid-assisted synthesis of Fe2O3/nitrogen doped graphene hydrogels as high performance electrode material. *Electrochimica Acta*, **2018**, 283, 1858-1870	6.7	26
438	The In Situ Synthesis of Fe(OH)3 Film on Fe Foam as Efficient Anode of Alkaline Supercapacitor Based on a Promising Fe3+/Fe0 Energy Storage Mechanism. **2018**, 35, 1700484		11
437	Synthesis of La and Ce Mixed MnO2 Nanostructure/rGO Composite for Supercapacitor Applications. *ChemElectroChem*, **2018**, 5, 2218-2227	4.3	16
436	Manganese-Oxide-Based Electrode Materials for Energy Storage Applications: How Close Are We to the Theoretical Capacitance?. **2018**, 30, e1802569		68
435	Toward Tailorable Zn-Ion Textile Batteries with High Energy Density and Ultrafast Capability: Building High-Performance Textile Electrode in 3D Hierarchical Branched Design. *Small*, **2018**, 14, e1802320	11	48
434	Self-oxidized sponge-like nanoporous nickel alloy in three-dimensions with pseudocapacitive behavior and excellent capacitive performance. *Journal of Power Sources*, **2018**, 399, 192-198	8.9	14
433	Fe3O4 nanoparticles embedded in cellulose nanofibre/graphite carbon hybrid aerogels as advanced negative electrodes for flexible asymmetric supercapacitors. *Journal of Materials Chemistry A*, **2018**, 6, 17378-17388	13	30
432	□arbon-Glue□Enabled Highly Stable and High-Rate Fe3O4 Nanorod Anode for Flexible Quasi-Solid-State Nickel□Copper//Iron Alkaline Battery. **2018**, 5, 1801043		17
431	Flexible Fe O and V O Nanofibers as Binder-Free Electrodes for High-Performance All-Solid-State Asymmetric Supercapacitors. **2018**, 24, 10683-10688		43
430	Reduced graphene oxide-mediated synthesis of MnO nanomaterials for an asymmetric supercapacitor cell.. **2018**, 8, 20661-20668		12
429	Capacitance response in an aqueous electrolyte of Nb2O5 nanochannel layers anodically grown in pure molten o-H3PO4. *Electrochimica Acta*, **2018**, 281, 725-737	6.7	15
428	Highly loaded manganese oxide with high rate capability for capacitive applications. *Journal of Power Sources*, **2018**, 396, 238-245	8.9	17
427	Origin of storage capacity enhancement by replacing univalent ion with multivalent ion for energy storage. *Electrochimica Acta*, **2018**, 282, 30-37	6.7	8
426	Novel coaxial fiber-shaped sensing system integrated with an asymmetric supercapacitor and a humidity sensor. **2018**, 15, 315-323		38
425	Rational design of forest-like nickel sulfide hierarchical architectures with ultrahigh areal capacity as a binder-free cathode material for hybrid supercapacitors. *Journal of Materials Chemistry A*, **2018**, 6, 13178-13190	13	60

424	Hierarchical FeS/RGO/FeS@Fe foil as high-performance negative electrode for asymmetric supercapacitors. **2018**, 5, 1912-1922		19
423	A MoS2-templated oxidation-etching strategy to synthesize hollow MnO2 nanospheres as a high-performance electrode for supercapacitor. **2018**, 44, 16923-16930		6
422	Mesoporous NiCo2O4 nanoneedles@MnO2 nanoparticles grown on nickel foam for electrode used in high-performance supercapacitors. **2019**, 31, 167-177		26
421	A journey across the solid state polymerization to assess the role of critical factors influencing the molecular weight of polylactic acid. **2019**, 25, 165-171		
420	All ternary metal selenide nanostructures for high energy flexible charge storage devices. **2019**, 65, 103999		94
419	A ternary MnO2-deposited RGO/lignin-based porous carbon composite electrode for flexible supercapacitor applications. **2019**, 43, 14084-14092		14
418	A homogenous mixed coating enabled significant stability and capacity enhancement of iron oxide anodes for aqueous nickel-iron batteries. **2019**, 55, 10308-10311		11
417	Phase and morphology controlled polymorphic MnO2 nanostructures for electrochemical energy storage. **2019**, 21, 5322-5331		20
416	Construction of Coral Shaped Ni(OH)2/Ni Dendrite and Fe2O3/Fe Dendrite Electrodes for Cable-Shaped Energy Storage Devices. **2019**, 166, A2636-A2642		6
415	NiFeP nanoflakes composite with CoP on carbon cloth as flexible and durable electrocatalyst for efficient overall water splitting. **2019**, 30, 485402		3
414	In-situ growth of hollow NiCo layered double hydroxide on carbon substrate for flexible supercapacitor. *Electrochimica Acta*, **2019**, 321, 134710	6.7	57
413	Construction of facile ion and electron diffusion by hierarchical core-branch Zn substituted NiCo nanocomposite for high-performance asymmetric supercapacitors. **2019**, 153, 531-538		41
412	Structural engineering to maintain the superior capacitance of molybdenum oxides at ultrahigh mass loadings. *Journal of Materials Chemistry A*, **2019**, 7, 23941-23948	13	25
411	Self-activation of nitrogen and sulfur dual-doping hierarchical porous carbons for asymmetric supercapacitors with high energy densities. **2019**, 153, 225-233		73
410	Enhanced response of hydrogenated Fe2O3 nanostructured materials to volatile organic compound vapors and gas sensing mechanism. **2019**, 806, 705-716		5
409	Hierarchical Nanosheets/Walls Structured Carbon-Coated Porous Vanadium Nitride Anodes Enable Wide-Voltage-Window Aqueous Asymmetric Supercapacitors with High Energy Density. *Advanced Science*, **2019**, 6, 1900550	13.6	40
408	Template free and facile microwave-assisted synthesis method to prepare mesoporous copper sulfide nanosheets for high-performance hybrid supercapacitor. *Electrochimica Acta*, **2019**, 319, 49-60	6.7	24
407	Progress Report on Atomic Layer Deposition Toward Hybrid Nanocomposite Electrodes for Next Generation Supercapacitors. **2019**, 6, 1900678		10

406	□Fe2O3 Film with Highly Photoactivity for Non-enzymatic Photoelectrochemical Detection of Glucose. **2019**, 31, 1809-1814		7
405	Effect of morphology of manganese oxide on the capacitive behavior of electrodes. **2019**, 6, 115552		3
404	Fe3O4/Nitrogen-Doped Carbon Electrodes from Tailored Thermal Expansion toward Flexible Solid-State Asymmetric Supercapacitors. **2019**, 6, 1901250		5
403	Dendrite-Free Flexible Fiber-Shaped Zn Battery with Long Cycle Life in Water and Air. **2019**, 9, 1901434		54
402	Construction of WO3/Ti-doped WO3 bi-layer nanopore arrays with superior electrochromic and capacitive performances. **2019**, 1, 236-244		3
401	High-performance and flexible solid-state supercapacitors based on high toughness and thermoplastic poly(vinyl alcohol)/NaCl/glycerol supramolecular gel polymer electrolyte. *Electrochimica Acta*, **2019**, 324, 134874	6.7	36
400	Composite of manganese dioxide impregnated in porous hollow carbon spheres for flexible asymmetric solid-state supercapacitors. *International Journal of Energy Research*, **2019**, 43, 9025-9033	4.5	10
399	All-Solid-State Flexible Asymmetric Supercapacitor with Good Cycling Performance and Ultra-Power Density by Electrode Materials of Core-Shell CoNiO@NiAl-Layered Double Hydroxide and Hollow Spherical □FeO. **2019**, 14, 87		5
398	Flexible Solid-State Symmetric Supercapacitors Using HxWO3@Reduced Graphene Oxide Composite with High Volumetric Energy and Power Densities. *ChemElectroChem*, **2019**, 6, 5136-5148	4.3	6
397	Current Diatom Research in China. **2019**, 43-98		1
396	Ultrathin Ni-MOF nanosheet coated NiCo2O4 nanowire arrays as a high-performance binder-free electrode for flexible hybrid supercapacitors. **2019**, 45, 24279-24287		28
395	Thermoelectric phase diagram of the SrTiO3-LaTiO3 solid-solution system through a metal to Mott insulator transition. **2019**, 126, 075104		2
394	In Situ Encapsulating Metal Oxides into Core-Shell Hierarchical Hybrid Fibers for Flexible Zinc-Ion Batteries toward High Durability and Ultrafast Capability for Wearable Applications. *ACS Applied Materials & Interfaces*, **2019**, 11, 35796-35808	9.5	28
393	Free-standing PEDOT/polyaniline conductive polymer hydrogel for flexible solid-state supercapacitors. *Electrochimica Acta*, **2019**, 322, 134769	6.7	78
392	A self-reconstructed (oxy)hydroxide@nanoporous metal phosphide electrode for high-performance rechargeable zinc batteries. *Journal of Materials Chemistry A*, **2019**, 7, 21069-21078	13	17
391	An intelligent and portable power storage device able to visualize the energy status. *Journal of Materials Chemistry A*, **2019**, 7, 23028-23037	13	18
390	Nanowires for Electrochemical Energy Storage. *Chemical Reviews*, **2019**, 119, 11042-11109	68.1	167
389	Fabrication of a ternary PANI@Fe3O4@CFs nanocomposite as a high performance electrode for solid-state supercapacitors. **2019**, 44, 26794-26806		19

388	Tubular morphology preservation and doping engineering of Sn/P-codoped hematite for photoelectrochemical water oxidation. **2019**, 48, 928-935		4
387	A metal-organic-framework approach to engineer hollow bimetal oxide microspheres towards enhanced electrochemical performances of lithium storage. **2019**, 48, 2019-2027		13
386	Amorphous FeOOH nanorods and Co3O4 nanoflakes as binder-free electrodes for high-performance all-solid-state asymmetric supercapacitors. **2019**, 21, 662-672		26
385	Flexible Supercapacitors: A Materials Perspective. **2019**, 5,		79
384	Iron oxide-based nanomaterials for supercapacitors. **2019**, 30, 204002		28
383	Ultrahigh sensitivity acetone sensor based on Gd2O3/Fe2O3 loose microspheres at low temperature. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 5008-5013	2.1	1
382	Fe2P4O12□arbon composite as a highly stable electrode material for electrochemical capacitors. **2019**, 43, 399-406		7
381	High-performance asymmetric supercapacitor based on graphene-supported iron oxide and manganese sulfide. *Ionics*, **2019**, 25, 4925-4933	2.7	11
380	Hierarchically porous structured carbon derived from peanut shell as an enhanced high rate anode for lithium ion batteries. **2019**, 492, 464-472		17
379	Textile carbon network with enhanced areal capacitance prepared by chemical activation of cotton cloth. **2019**, 553, 705-712		30
378	Low-cost high-performance asymmetric supercapacitors based on ribbon-like Ni(OH)2 and biomass carbon nanofibers enriched with nitrogen and phosphorus. *Ionics*, **2019**, 25, 4341-4350	2.7	7
377	Lifetime assessment of solid-state hybrid supercapacitors based on cotton fabric electrodes. *Journal of Power Sources*, **2019**, 434, 226735	8.9	10
376	Electrochemically modified graphite paper as an advanced electrode substrate for supercapacitor application. *Journal of Materials Chemistry A*, **2019**, 7, 17547-17560	13	28
375	In-situ activation endows the integrated Fe3C/Fe@nitrogen-doped carbon hybrids with enhanced pseudocapacitance for electrochemical energy storage. **2019**, 375, 122061		23
374	One-step electrodeposited MnxCo1□(OH)2 nanosheet arrays as cathode for asymmetric on-chip micro-supercapacitors. **2019**, 114, 223903		9
373	Oxygen vacancy-engineered FeO nanoarrays as free-standing electrodes for flexible asymmetric supercapacitors. *Nanoscale*, **2019**, 11, 12477-12483	7.7	40
372	Hierarchical assembly of manganese dioxide nanosheets on one-dimensional titanium nitride nanofibers for high-performance supercapacitors. **2019**, 552, 712-718		16
371	Constructing efficient quasi-solid-state alkaline Ni□Fe battery based on Ni□Mn hydroxides/Ni3S2 and FeOOH@RGO electrodes. *Journal of Materials Science: Materials in Electronics*, **2019**, 30, 13076-13089	2.1	10

370	Novel binder-free electrode of NiCo2O4@NiMn2O4 core-shell arrays modified carbon fabric for enhanced electrochemical properties. **2019**, 45, 16904-16910		10
369	A Flexible Aqueous Asymmetric Lithium-Ion Supercapacitor with High Voltage and Superior Safety. **2019**, 7, 1900293		4
368	One-Dimensional Nanostructured Pseudocapacitive Materials: Design, Synthesis and Applications in Supercapacitors. **2019**, 2, 820-841		63
367	Few-layer MoS2 wrapped MnCO3 on graphite paper: A hydrothermally grown hybrid negative electrode for electrochemical energy storage. **2019**, 373, 1233-1246		12
366	"One-for-All" strategy to design oxygen-deficient triple-shelled MnO and hollow FeO microcubes for high energy density asymmetric supercapacitors. **2019**, 48, 8623-8632		16
365	MnO2 nanosheet-coated Co3O4 complex for 1.4 V extra-high voltage supercapacitors electrode material. *Journal of Power Sources*, **2019**, 431, 48-54	8.9	33
364	Shape-tailorable high-energy asymmetric micro-supercapacitors based on plasma reduced and nitrogen-doped graphene oxide and MoO2 nanoparticles. *Journal of Materials Chemistry A*, **2019**, 7, 14328-14336	13	27
363	Self-assembled three-dimensional Ti3C2Tx nanosheets network on carbon cloth as flexible electrode for supercapacitors. **2019**, 485, 1-7		19
362	Three-dimensional "skin-framework" hybrid network as electroactive material platform for high-performance solid-state asymmetric supercapacitor.. **2019**, 9, 12877-12885		
361	Fe2O3 Nanoparticles Decorated on Graphene-Carbon Nanotubes Conductive Networks for Boosting the Energy Density of All-Solid-State Asymmetric Supercapacitor. **2019**, 7, 9211-9219		33
360	Electrochemical response of a high-power asymmetric supercapacitor based on tailored MnOx/Ni foam and carbon cloth in neutral and alkaline electrolytes. *Journal of Energy Storage*, **2019**, 22, 345-353	7.8	15
359	Recent advance in new-generation integrated devices for energy harvesting and storage. **2019**, 60, 600-619		126
358	CuCo2O4 nanowire arrays wrapped in metal oxide nanosheets as hierarchical multicomponent electrodes for supercapacitors. **2019**, 369, 363-369		100
357	3D self-branched zinc-cobalt Oxide@N-doped carbon hollow nanowall arrays for high-performance asymmetric supercapacitors and oxygen electrocatalysis. **2019**, 23, 653-663		56
356	In situ growth of MnO@NaTiO heterojunction nanowires for high performance supercapacitors. **2019**, 30, 335401		7
355	Zinc□ickel□cobalt ternary hydroxide nanoarrays for high-performance supercapacitors. *Journal of Materials Chemistry A*, **2019**, 7, 11826-11835	13	72
354	Electrodeposition of a cobalt phosphide film for the enhanced photoelectrochemical water oxidation with □Fe2O3 photoanode. *Electrochimica Acta*, **2019**, 307, 92-99	6.7	15
353	Flexible supercapacitors based on carbon nanotube-MnO2 nanocomposite film electrode. **2019**, 371, 145-153		108

352	Oxygen vacancies modulation in graphene/MnOx composite for high performance supercapacitors. **2019**, 569, 10-17		13
351	Flexible quasi-solid-state dual-ion asymmetric supercapacitor based on Ni(OH)2 and Nb2O5 nanosheet arrays. *Green Energy and Environment*, **2019**, 4, 382-390	5.7	19
350	Toward Low-Cost and Sustainable Supercapacitor Electrode Processing: Simultaneous Carbon Grafting and Coating of Mixed-Valence Metal Oxides by Fast Annealing. **2019**, 7, 25		8
349	PEDOT-engineered Bi2O3 nanosheet arrays for flexible asymmetric supercapacitors with boosted energy density. *Journal of Materials Chemistry A*, **2019**, 7, 5530-5538	13	18
348	Nanostructured Metal Oxides for Supercapacitor Applications. **2019**, 247-303		2
347	Hydrothermal synthesis of well-standing □MnO2 nanoplatelets on nitrogen-doped reduced graphene oxide for high-performance supercapacitor. **2019**, 787, 309-317		11
346	Synthesis of FeP nanotube arrays as negative electrode for solid-state asymmetric supercapacitor. **2019**, 30, 295401		15
345	Silver-Quantum-Dot-Modified MoO and MnO Paper-Like Freestanding Films for Flexible Solid-State Asymmetric Supercapacitors. *Small*, **2019**, 15, e1805235	11	54
344	MnO2 based sandwich structure electrode for supercapacitor with large voltage window and high mass loading. **2019**, 368, 525-532		50
343	Anode electrodeposition of 3D mesoporous Fe2O3 nanosheets on carbon fabric for flexible solid-state asymmetric supercapacitor. **2019**, 45, 10420-10428		22
342	Valence and surface modulated vanadium oxide nanowires as new high-energy and durable negative electrode for flexible asymmetric supercapacitors. **2019**, 22, 410-417		52
341	Controllable Design of Polypyrrole-Iron Oxide Nanocoral Architectures for Supercapacitors with Ultrahigh Cycling Stability. *ACS Applied Energy Materials*, **2019**, 2, 2161-2168	6.1	12
340	A high energy density fiber-shaped supercapacitor based on zinc-cobalt bimetallic oxide nanowire forests on carbon nanotube fibers. **2019**, 34, 559-568		9
339	Few-layered Ti3C2Tx MXenes coupled with Fe2O3 nanorod arrays grown on carbon cloth as anodes for flexible asymmetric supercapacitors. *Journal of Materials Chemistry A*, **2019**, 7, 22631-22641	13	49
338	Flexible Supercapacitor Electrodes Based on Carbon Cloth-Supported LaMnO/MnO Nano-Arrays by One-Step Electrodeposition. **2019**, 9,		19
337	Binding Fe2O3 nanoparticles in polydopamine-reduced graphene as negative electrode materials for high-performance asymmetric supercapacitors. **2019**, 21, 1		2
336	Asymmetric faradaic assembly of BiO and MnO for a high-performance hybrid electrochemical energy storage device.. **2019**, 9, 32154-32164		6
335	Lawn-like FeCo2S4 hollow nanoneedle arrays on flexible carbon nanofiber film as binder-free electrodes for high-performance asymmetric pseudocapacitors. **2019**, 772, 337-347		38

334	A high-performance pseudocapacitive electrode material for supercapacitors based on the unique NiMoO4/NiO nanoflowers. **2019**, 463, 721-731		60
333	Tunable synthesis of LixMnO2 nanowires for aqueous Li-ion hybrid supercapacitor with high rate capability and ultra-long cycle life. *Journal of Power Sources*, **2019**, 413, 302-309	8.9	47
332	Tunnel structured hollandite K0.06TiO2 microrods as the negative electrode for 2.4 V flexible all-solid-state asymmetric supercapacitors with high performance. *Journal of Power Sources*, **2019**, 413, 34-41	8.9	8
331	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
330	Porous Fe2O3 nanospheres anchored on activated carbon cloth for high-performance symmetric supercapacitors. **2019**, 57, 379-387		175
329	Exploring Li-ion hopping behavior in zinc ferrite and promoting performance for flexible solid-state supercapacitor. *Electrochimica Acta*, **2019**, 295, 558-568	6.7	15
328	Low-cost fabrication of amorphous cobalt-iron-boron nanosheets for high-performance asymmetric supercapacitors. *Electrochimica Acta*, **2019**, 296, 198-205	6.7	18
327	Reduced ZnCo2O4@NiMoO4□H2O heterostructure electrodes with modulating oxygen vacancies for enhanced aqueous asymmetric supercapacitors. *Journal of Power Sources*, **2019**, 409, 112-122	8.9	64
326	Phosphorus-Mediated MoS Nanowires as a High-Performance Electrode Material for Quasi-Solid-State Sodium-Ion Intercalation Supercapacitors. *Small*, **2019**, 15, e1803984	11	54
325	Hydrous RuO2 nanoparticles coated on Co(OH)2 nanoflakes as advanced electrode material of supercapacitors. **2019**, 470, 306-317		30
324	High-performance 2.5 V flexible aqueous asymmetric supercapacitors based on K+/Na+-inserted MnO2 nanosheets. *Electrochimica Acta*, **2019**, 300, 9-17	6.7	32
323	MnO2 Nanostructures Deposited on Graphene-Like Porous Carbon Nanosheets for High-Rate Performance and High-Energy Density Asymmetric Supercapacitors. **2019**, 7, 3101-3110		50
322	Nanocellulose-Enabled, All-Nanofiber, High-Performance Supercapacitor. *ACS Applied Materials & Interfaces*, **2019**, 11, 5919-5927	9.5	60
321	Flexible Solid-State Supercapacitor Based on Carbon Nanotube/Fe3O4/Reduced Graphene Oxide Binary Films. **2019**, 4, 437-440		15
320	Controlled synthesis of unique CoS nanostructures with carbon coating as advanced electrode for solid-state asymmetric supercapacitors. **2019**, 540, 389-397		20
319	Efficient 3D Printed Pseudocapacitive Electrodes with Ultrahigh MnO2 Loading. **2019**, 3, 459-470		232
318	Electrodeposited CuS nanosheets on carbonized cotton fabric as flexible supercapacitor electrode for high energy storage. *Electrochimica Acta*, **2019**, 295, 668-676	6.7	46
317	Hydrothermal synthesis of graphene-encapsulated 2D circular nanoplates of □Fe2O3 towards enhanced electrochemical performance for supercapacitor. **2019**, 775, 63-71		21

316	Boosting operating voltage of vanadium oxide-based symmetric aqueous supercapacitor to 2 V. **2019**, 358, 1529-1538	25
315	Strategies and insights towards the intrinsic capacitive properties of MnO2 for supercapacitors: Challenges and perspectives. **2019**, 57, 459-472	144
314	Flexible all-solid-state supercapacitors of polyaniline nanowire arrays deposited on electrospun carbon nanofibers decorated with MOFs. **2019**, 30, 085404	21
313	Ultrathin graphene layer activated dendritic □Fe2O3 for high performance asymmetric supercapacitors. **2019**, 780, 212-219	20
312	Fiber-shaped asymmetric supercapacitor exploiting rGO/Fe2O3 aerogel and electrodeposited MnOx nanosheets on carbon fibers. **2019**, 144, 91-100	35
311	Flexible iron-doped Sr(OH)2 fibre wrapped tuberose for high-performance supercapacitor electrode. **2019**, 781, 831-841	18
310	Organic Conjugated Polymer-Based Functional Nanohybrids. **2019**, 357-379	23
309	Highly conductive NiSe2 nanostructures for all-solid-state battery□supercapacitor hybrid devices. **2019**, 54, 571-581	26
308	Flexible asymmetric supercapacitor with high energy density based on optimized MnO2 cathode and Fe2O3 anode. **2019**, 30, 750-756	30
307	Green synthesis of nanoarchitectured nickel fabrics as high performance electrodes for supercapacitors. **2019**, 135, 1445-1451	7
306	One-pot hydrothermal fabrication of □Fe2O3@C nanocomposites for electrochemical energy storage. **2019**, 28, 1-8	21
305	In-situ growth of nanowire WO2.72 on carbon cloth as a binder-free electrode for flexible asymmetric supercapacitors with high performance. **2019**, 29, 58-64	8
304	Performance of polypyrrole coated metal oxide composite electrodes for benthic microbial fuel cell (BMFC). **2020**, 8, 102757	17
303	Activated carbon clothes for wide-voltage high-energy-density aqueous symmetric supercapacitors. **2020**, 31, 1620-1624	16
302	Facile synthesis of freestanding cellulose/RGO/silver/Fe2O3 hybrid film for ultrahigh-areal-energy-density flexible solid-state supercapacitor. **2020**, 500, 144244	22
301	A comparative analysis of real-time power optimization for organic Rankine cycle waste heat recovery systems. **2020**, 164, 114442	12
300	Electrodes derived from carbon fiber-reinforced cellulose nanofiber/multiwalled carbon nanotube hybrid aerogels for high-energy flexible asymmetric supercapacitors. **2020**, 379, 122325	34
299	Hierarchical NiCo2O4/MnO2 core□shell nanosheets arrays for flexible asymmetric supercapacitor. **2020**, 55, 688-700	15

298	Microwave-assisted high-yield exfoliation of vanadium pentoxide nanoribbons for supercapacitor applications. *Electrochimica Acta*, **2020**, 330, 135200	6.7	8
297	Zinc-nickel-cobalt oxide@NiMoO4 core-shell nanowire/nanosheet arrays for solid state asymmetric supercapacitors. **2020**, 384, 123357		79
296	Polymer Electrolytes for Supercapacitor and Challenges. **2020**, 231-297		5
295	Recent progress of advanced energy storage materials for flexible and wearable supercapacitor: From design and development to applications. *Journal of Energy Storage*, **2020**, 27, 101035	7.8	75
294	Influence of annealing temperature in nitrogen doped porous carbon balls derived from hypercross-linked polymer of anthracene for supercapacitor applications. *Journal of Energy Storage*, **2020**, 28, 101196	7.8	26
293	Birnessite based nanostructures for supercapacitors: challenges, strategies and prospects. **2020**, 2, 37-54		29
292	An Aqueous Hybrid Supercapacitor Employing Honeycomb-Shaped MoS2 Nanosheets as Anode. **2020**, 20, 1020-1027		4
291	A novel all solid-state asymmetric supercapacitor with superior electrochemical performance in a wide temperature range using a hydroquinone modified graphene xerogel as the cathode and N-doped Ti3C2Tx as the anode. *Journal of Materials Chemistry A*, **2020**, 8, 1687-1696	13	20
290	The effect of work function difference between cathode and anode materials on the potential window of the supercapacitor. *Electrochimica Acta*, **2020**, 332, 135479	6.7	7
289	Fusing electrochromic technology with other advanced technologies: A new roadmap for future development. **2020**, 140, 100524		101
288	Construction of MnO Artificial Leaf with Atomic Thickness as Highly Stable Battery Anodes. **2020**, 32, e1906582		32
287	Surface-functionalized Fe2O3 nanowire arrays with enhanced pseudocapacitive performance as novel anode materials for high-energy-density fiber-shaped asymmetric supercapacitors. *Electrochimica Acta*, **2020**, 330, 135247	6.7	20
286	Supercapacitor nanomaterials. **2020**, 295-324		6
285	2.6 V aqueous symmetric supercapacitors based on phosphorus-doped TiO nanotube arrays. **2020**, 49, 1785-1793		9
284	Regulating Voltage Window and Energy Density of Aqueous Asymmetric Supercapacitors by Pinecone-Like Hollow Fe2O3/MnO2 Nano-Heterostructure. **2020**, 7, 1901729		21
283	Free-standing Ni3S2 nanowire derived from in-situ synthetized coordination supramolecular as electrode materials for high performance asymmetric supercapacitors. **2020**, 507, 145074		8
282	Effect of A-site substitution by Ca or Sr on the structure and electrochemical performance of LaMnO3 perovskite. *Electrochimica Acta*, **2020**, 332, 135489	6.7	12
281	Facile flame deposit of CNFs/Fe2O3 coating on 304 stainless steel mesh and their high capacitive performance. *Electrochimica Acta*, **2020**, 335, 135527	6.7	8

280	3D interconnected boron- and nitrogen-codoped carbon nanosheets decorated with manganese oxides for high-performance capacitive deionization. **2020**, 158, 184-192		39
279	Carbon intermediate boosted Fe-ZIF derived □FeO as a high-performance negative electrode for supercapacitors. **2020**, 31, 135403		8
278	Bio-mass derived ultrahigh-energy storage porous graphitic carbon for advanced anode material in lithium battery. *Materials Chemistry and Physics*, **2020**, 242, 122543	4.4	8
277	One-pot synthesis of the flower-like Co0.85Se nanosheets as an anode material for long-life aqueous asymmetric supercapacitor. **2020**, 268, 116499		8
276	Morphologically engineered cactus-like MnO2 nanostructure as a high-performance electrode material for energy-storage applications. *Journal of Energy Storage*, **2020**, 32, 101880	7.8	5
275	In Situ Growth of 2D Ultrathin NiCo O Nanosheet Arrays on Ni Foam for High Performance and Flexible Solid-State Supercapacitors. *Small*, **2020**, 16, e2004188	11	30
274	Enhanced Activity of Hierarchical Nanostructural Birnessite-MnO-Based Materials Deposited onto Nickel Foam for Efficient Supercapacitor Electrodes. **2020**, 10,		4
273	Vertically aligned MnO2 nanosheet electrode of controllable mass loading, counter to nanoparticulate carbon film electrode for use in supercapacitor. *Journal of Energy Storage*, **2020**, 32, 101851	7.8	2
272	Iron oxides nanobelt arrays rooted in nanoporous surface of carbon tube textile as stretchable and robust electrodes for flexible supercapacitors with ultrahigh areal energy density and remarkable cycling-stability. **2020**, 10, 11023		14
271	High mass loading NiCo2O4 with shell-nanosheet/core-nanocage hierarchical structure for high-rate solid-state hybrid supercapacitors. *Green Energy and Environment*, **2020**,	5.7	3
270	Low-Cost MnO2 Nanoflowers and La2O3 Nanospheres as Efficient Electrodes for Asymmetric Supercapacitors. **2020**, 34, 14882-14892		6
269	Electrical and Structural Dual Function of Oxygen Vacancies for Promoting Electrochemical Capacitance in Tungsten Oxide. *Small*, **2020**, 16, e2004709	11	11
268	True Meaning of Pseudocapacitors and Their Performance Metrics: Asymmetric versus Hybrid Supercapacitors. *Small*, **2020**, 16, e2002806	11	142
267	A high energy density flexible symmetric supercapacitor based on Al-doped MnO2 nanosheets @ carbon cloth electrode materials. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 16027-16036	2.1	6
266	Large-Area and 3D Polyaniline Nanoweb Film for Flexible Supercapacitors with High Rate Capability and Long Cycle Life. *ACS Applied Energy Materials*, **2020**, 3, 7746-7755	6.1	20
265	Rapid synthesis of high-areal-capacitance ultrathin hexagon Fe2O3 nanoplates on carbon cloth via a versatile molten salt method. **2020**, 4, 2744-2753		10
264	Rational construction of porous amorphous WO3 nanostructures with high electrochromic energy storage performance: Effect of temperature. **2020**, 549, 120337		8
263	Carbon coated iron oxide (CC-IO) as high performance electrode material for supercapacitor applications. *Journal of Energy Storage*, **2020**, 32, 101737	7.8	15

262	Tumor microenvironment responsive hollow mesoporous CoS@MnO-ICG/DOX intelligent nanoplatform for synergistically enhanced tumor multimodal therapy. **2020**, 262, 120346		33
261	Nickel oxide on directly grown carbon nanofibers for energy storage applications. **2020**, 50, 1217-1229		6
260	Fabrication of a 2.8 V high-performance aqueous flexible fiber-shaped asymmetric micro-supercapacitor based on MnO2/PEDOT:PSS-reduced graphene oxide nanocomposite grown on carbon fiber electrode. *Journal of Materials Chemistry A*, **2020**, 8, 19588-19602	13	27
259	Wood nanotechnology: a more promising solution toward energy issues: a mini-review. **2020**, 27, 8513-8526		7
258	Design and optimization of asymmetric supercapacitors assembled by Platanus acerifolia seeds and ZIF-67 as precursors. **2020**, 878, 114668		1
257	MOF-derived 1D hollow bimetallic iron(III) oxide nanorods: effects of metal-addition on phase transition, morphology and magnetic properties. **2020**, 22, 8081-8087		7
256	Interface metallization enabled an ultra-stable FeO hierarchical anode for pseudocapacitors.. **2020**, 10, 8636-8644		2
255	Tuning the morphology and redox behaviour by varying the concentration of Fe in a CoNiFe ternary oxide heterostructure for hybrid devices. **2020**, 44, 9921-9932		6
254	Transition metal oxides anchored on graphene/carbon nanotubes conductive network as both the negative and positive electrodes for asymmetric supercapacitor. **2020**, 842, 155838		22
253	Controllable Synthesis of Nanostructured MnO□as Electrode Material of Supercapacitors. **2020**, 20, 4815-4823		2
252	Biotemplate Synthesis of Fe3O4/Polyaniline for Supercapacitor. *Journal of Energy Storage*, **2020**, 30, 101554	7.8	9
251	Integration of MnO2 and ZIF-Derived nanoporous carbon on nickel foam as an electrode for high-performance supercapacitors. **2020**, 46, 21033-21038		7
250	Hierarchical Mn-doped Fe2O3@rGO hollow core-shell spheres for high-performance hybrid capacitor. **2020**, 17, 100388		7
249	Sustainable production of nano □Fe2O3/N-doped biochar hybrid nanosheets for supercapacitors. **2020**, 4, 4522-4530		8
248	Conductive and flexible PEDOT-decorated paper as high performance electrode fabricated by vapor phase polymerization for supercapacitor. **2020**, 603, 125173		8
247	Three-Dimensional SiC/Holey-Graphene/Holey-MnO Architectures for Flexible Energy Storage with Superior Power and Energy Densities. *ACS Applied Materials & Interfaces*, **2020**, 12, 32514-32525	9.5	5
246	Energy Storage Applications of Cobalt and Manganese Metal□Organic Frameworks. **2020**, 30, 4792-4802		3
245	Deleterious impacts of heat stress on steroidogenesis markers, immunity status and ovarian tissue of Nile tilapia (Oreochromis niloticus). **2020**, 91, 102578		4

244	Fast Charging Materials for High Power Applications. **2020**, 10, 2001128		48
243	Nanostructured Fe2O3@nitrogen-doped multiwalled nanotube/cellulose nanocrystal composite material electrodes for high-performance supercapacitor applications. **2020**, 9, 7615-7627		13
242	Electrode materials for supercapacitors. **2020**, 35-204		3
241	PANI//MoO3 Fiber-shaped Asymmetric Supercapacitors with Roll-type Configuration. **2020**, 21, 465-472		4
240	Transition metal based battery-type electrodes in hybrid supercapacitors: A review. **2020**, 28, 122-145		199
239	Polypyrrole-coated FeO nanotubes constructed from nanoneedles as high-performance anodes for aqueous asymmetric supercapacitors. **2020**, 49, 9701-9709		11
238	Improved performance of photoelectrochemical water oxidation from nanostructured hematite photoanode with an immobilized molecular cobalt salophen catalyst. **2020**, 55, 12864-12875		3
237	Preparation and a new method to determinate catalase mimics activity of MnO2, Fe2O3 and MnO2:Fe2O3. **2020**,		
236	Polyol mediated synthesis of anisotropic ZnO nanomaterials and composite with rGO: Application towards hybrid supercapacitor. **2020**, 844, 156149		17
235	Engineering MoS2 Nanosheets on Spindle-Like □Fe2O3 as High-Performance Core□Shell Pseudocapacitive Anodes for Fiber-Shaped Aqueous Lithium-Ion Capacitors. **2020**, 30, 2003967		30
234	3D Printed Compressible Quasi-Solid-State Nickel-Iron Battery. **2020**, 14, 9675-9686		32
233	Modification of Corroded Metal (Ni or Fe) Foam for High-Performance Rechargeable Alkaline Ni/Fe Batteries. *ChemElectroChem*, **2020**, 7, 3098-3105	4.3	13
232	Determining roles of in-situ measured surface potentials of phase controlled synthesized MnO2 nanostructures for superficial adsorption. **2020**, 513, 145752		4
231	In Situ Engineering of the Core-Shell Ag@Cu Structure on Porous Nanowire Arrays for High Energy and Stable Aqueous Ag-Bi Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 10332-10340	9.5	4
230	Development of nanohybrids based on porous spinel MCo2O4 (M = Zn, Cu, Ni and Mn)/reduced graphene oxide/carbon nanotube as promising electrodes for high performance energy storage devices. **2020**, 513, 145781		15
229	Research progress on transition metal oxide based electrode materials for asymmetric hybrid capacitors. **2020**, 31, 2177-2188		50
228	Beyond intercalation-based supercapacitors: The electrochemical oxidation from Mn3O4 to Li4Mn5O12 in Li2SO4 electrolyte. **2020**, 71, 104626		29
227	Newly Design Porous/Sponge Red Phosphorus@Graphene and Highly Conductive NiP Electrode for Asymmetric Solid State Supercapacitive Device With Excellent Performance. **2020**, 12, 25		20

226	Simultaneous enhanced electrochemical and photoelectrochemical properties of Fe2O3/graphene by hydrogen annealing. **2020**, 7, 025032		2
225	New colorimetric method to determine catalase mimic activity. **2020**, 7, 025405		10
224	Novel Ag configurations decorated CuO hybrid electrode for high-performance asymmetric supercapacitor. **2020**, 55, 6963-6975		14
223	Redox active coating on graphite surface of hierarchically porous wood electrodes for supercapacitor application. **2020**, 24, 101045		4
222	Carbon alternative pseudocapacitive V2O5 nanobricks and MnO2 nanoflakes @ MnO2 nanowires hetero-phase for high-energy pseudocapacitor. *Journal of Power Sources*, **2020**, 453, 227766	8.9	20
221	Electroactive Ultra-Thin rGO-Enriched FeMoO Nanotubes and MnO Nanorods as Electrodes for High-Performance All-Solid-State Asymmetric Supercapacitors. **2020**, 10,		11
220	Moderate oxygen-deficient Fe(III) oxide nanoplates for high performance symmetric supercapacitors. **2020**, 565, 458-464		13
219	Initiating a wide-temperature-window yarn zinc ion battery by a highly conductive iongel. **2020**, 16, 100372		10
218	Facile synthesis of FeS2/PVP composite as high-performance electrodes for supercapacitors. *Journal of Energy Storage*, **2020**, 28, 101216	7.8	12
217	Self-supported core-shell heterostructure MnO2/NiCo-LDH composite for flexible high-performance supercapacitor. **2020**, 824, 153929		27
216	3D-Printed Structure Boosts the Kinetics and Intrinsic Capacitance of Pseudocapacitive Graphene Aerogels. **2020**, 32, e1906652		105
215	Building vertically-structured, high-performance electrodes by interlayer-confined reactions in accordion-like, chemically expanded graphite. **2020**, 70, 104482		16
214	Boosting the Energy Density of Flexible Asymmetric Supercapacitor with Three Dimensional Fe2O3 Composite Brush Anode. **2020**, 36, 97-104		6
213	Facile and fast synthesis of SnO2 quantum dots for high performance solid-state asymmetric supercapacitor. **2020**, 825, 153850		26
212	Unlocking the Door of Boosting Biodirected Structures for High-Performance VN O /C by Controlling the Reproduction Mode. *Advanced Science*, **2020**, 7, 1903276	13.6	16
211	Facile Synthesis of Hierarchical MgCo2O4@MnO2 Core-Shell Nanosheet Arrays on Nickel Foam as an Advanced Electrode for Asymmetric Supercapacitors. **2020**, 167, 020510		6
210	Chelated Zn Metal Organic Frameworks: Synthesis, Crystal Structure and Electrochemical Energy Storage. **2020**, 30, 2562-2571		4
209	Facile fabrication of oxygen vacancy-rich Fe2O3 microspheres on carbon cloth as negative electrode for supercapacitors. *Electrochimica Acta*, **2020**, 338, 135820	6.7	21

208	Site-selective exposure of iron nanoparticles to achieve rapid interface enrichment for heavy metals. **2020**, 56, 2795-2798		9
207	Building defect-rich oxide nanowires@graphene coaxial scrolls to boost high-rate capability, cycling durability and energy density for flexible Zn-ion batteries. **2020**, 396, 125259		27
206	Comprehensive Insight into the Mechanism, Material Selection and Performance Evaluation of Supercapatteries. **2020**, 12, 85		71
205	High-performance asymmetric supercapacitors fabricated by amorphous MnO2 on 3D-Ni foam as positive electrodes in a mixed electrolyte. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 7672-7682	2.1	5
204	Balancing the specific surface area and mass diffusion property of electrospun carbon fibers to enhance the cell performance of vanadium redox flow battery. **2020**, 45, 12565-12576		17
203	MnO2@Polyaniline-CNT-boron-doped graphene as a freestanding binder-free electrode material for supercapacitor. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 8385-8393	2.1	16
202	Peroxymonosulfate activated with waste battery-based Mn-Fe oxides for pollutant removal: Electron transfer mechanism, selective oxidation and LFER analysis. **2020**, 394, 124864		33
201	Co3O4/NiCo2O4 Perforated Nanosheets for High-Energy-Density All-Solid-State Asymmetric Supercapacitors with Extended Cyclic Stability. *ACS Applied Nano Materials*, **2020**, 3, 4241-4252	5.6	26
200	Recent advancement made in the field of reduced graphene oxide-based nanocomposites used in the energy storage devices: A review. *Journal of Energy Storage*, **2021**, 33, 102032	7.8	19
199	High-rate quasi-solid-state hybrid supercapacitor of hierarchical flowers of hydrated tungsten oxide nanosheets. *Electrochimica Acta*, **2021**, 366, 137389	6.7	12
198	Amorphous vanadium oxides with metallic character for asymmetric supercapacitors. **2021**, 403, 126380		30
197	Interlayer material technology of manganese phosphate toward and beyond electrochemical pseudocapacitance over energy storage application. **2021**, 71, 109-128		11
196	Heterogeneous structured Mn2O3/Fe2O3 composite as anode material for high performance lithium ion batteries. **2021**, 857, 157531		26
195	Recent Advances of Asymmetric Supercapacitors. **2021**, 8, 2001710		73
194	Metal-organic framework-derived carbon-cobalt oxysulfide nanocage heterostructure electrode for efficient hybrid supercapacitors. *International Journal of Energy Research*, **2021**, 45, 5988-6001	4.5	3
193	Fe2O3 nanowire arrays on Ni-coated yarns as excellent electrodes for high performance wearable yarn-supercapacitor. **2021**, 866, 158156		15
192	Vacuum annealed MnO2 ultra-thin nanosheets with oxygen defects for high performance supercapacitors. **2021**, 150, 109856		7
191	Review on Current Progress of MnO2-Based Ternary Nanocomposites for Supercapacitor Applications. *ChemElectroChem*, **2021**, 8, 291-336	4.3	20

190	Hydroxide ion dependent β-MnO2 enhanced via oxygen vacancies as the negative electrode for high-performance supercapacitors. *Journal of Materials Chemistry A*, **2021**, 9, 2872-2887	13	7
189	A universal strategy for ultra-flexible inorganic all-solid-state supercapacitors. **2021**, 852, 156613		4
188	Controlled synthesis of α-Fe2O3@rGO core–shell nanocomposites as anode for lithium ion batteries. **2021**, 56, 664-676		1
187	Nanoarchitectured Design of Vertical-Standing Arrays for Supercapacitors: Progress, Challenges, and Perspectives. **2021**, 31, 2006030		55
186	Building next-generation supercapacitors with battery type Ni(OH)2. *Journal of Materials Chemistry A*, **2021**, 9, 15542-15585	13	14
185	In situ growth of 2D BiOI precursors on a porous conductive framework for a high performance bismuth based aqueous battery. *Journal of Materials Chemistry A*, **2021**, 9, 15472-15481	13	1
184	Electrode materials and device architecture strategies for flexible supercapacitors in wearable energy storage. *Journal of Materials Chemistry A*, **2021**, 9, 8099-8128	13	24
183	Fabrication strategies for functionalized nanomaterials. **2021**, 55-95		1
182	Recycled Nanomaterials for Energy Storage (Supercapacitor) Applications. **2021**, 175-202		9
181	A review on the recent advances in hybrid supercapacitors. *Journal of Materials Chemistry A*, **2021**, 9, 15880-15918	13	81
180	Fe-Based Anode Materials for Asymmetric Supercapacitors. **2021**, 493-515		
179	Recent Advances in Hybrid Supercapacitors. **2021**, 75-113		
178	High Voltage Output/Energy Density Flexible Asymmetric Fiber Supercapacitors Based on Tree-Like Topology. *SSRN Electronic Journal*,	1	
177	Maximizing utilization of carbon fibers by bimetallic-catalytic etching and electrochemical modification for difunctional aqueous supercapacitors. **2021**, 5, 4434-4443		0
176	Green quasi-solid-state planar asymmetric supercapacitors with high working voltage and extraordinary volumetric energy density. *Journal of Materials Chemistry A*, **2021**, 9, 14363-14371	13	4
175	Nano-porous Al/Au skeleton to support MnO with enhanced performance and electrodeposition adhesion for flexible supercapacitors.. **2021**, 11, 21405-21413		1
174	Ultraflexible Reedlike Carbon Nanofiber Membranes Decorated with NiCo2S4 Nanosheets and Fe2O3 Core–Shell Nanoneedle Arrays as Electrodes of Flexible Quasi-Solid-State Asymmetric Supercapacitors. *ACS Applied Energy Materials*, **2021**, 4, 1505-1516	6.1	9
173	Mechanically Strong Double-Layered Aramid Nanofibers/MWCNTs/PANI Film Electrode for Flexible Supercapacitor. **2021**, 168, 020513		8

172	Facile SILAR preparation of Fe(OH)3/Ag/TiO2 nanotube arrays ternary hybrid for supercapacitor negative electrode. **2021**, 46, 8702-8721		5
171	High-performance aqueous asymmetric supercapacitor based on hierarchical wheatear-like LiNi0.5Mn1.5O4 cathode and porous Fe2O3 anode. **2021**, 17, 100337		9
170	Fabrication of N-doped carbon nanobelts from a polypyrrole tube by confined pyrolysis for supercapacitors. **2021**, 15, 1312-1321		1
169	Ni3Si2@TiO2 furs for supercapacitors with extremely high areal density and high cycleability. **2021**, 858, 157711		1
168	Performance analysis, challenges and future perspectives of nickel based nanostructured electrodes for electrochemical supercapacitors. **2021**, 11, 564-599		23
167	Influence of pH on the crystal structure of NiMoO4 nanomaterials and their supercapacitor performances. **2021**, 47, 11349-11357		6
166	Head space solid phase microextraction of 15 pesticides in water samples using MnO2 nanowires decorate on graphenized pencil lead fiber. 1-7		1
165	Ultrahigh specific capacitance of □Fe2O3 nanorods-incorporated defect-free graphene nanolayers. **2021**, 221, 119743		5
164	Forest-like carbon foam templated rGO/CNTs/MnO2 electrode for high-performance supercapacitor. *Electrochimica Acta*, **2021**, 375, 137960	6.7	15
163	Recent advances in the synthesis of non-carbon two-dimensional electrode materials for the aqueous electrolyte-based supercapacitors. **2021**, 32, 3733-3733		1
162	NaTi2(PO4)3 hollow nanoparticles encapsulated in carbon nanofibers as novel anodes for flexible aqueous rechargeable sodium-ion batteries. **2021**, 82, 105764		20
161	Charge storage behavior and reaction mechanism of □Fe2O3 as anodes for aqueous batteries. **2021**, 859, 157789		2
160	Flexible all-solid-state supercapacitors based on boron and nitrogen-doped carbon network anchored on carbon fiber cloth. **2021**, 410, 128365		15
159	Electrode thickness design toward bulk energy storage devices with high areal/volumetric energy density. **2021**, 289, 116734		13
158	Asymmetric Flexible Supercapacitors: An Overview of Principle, Materials and Mechanism. **2021**, 315-348		0
157	Polymer-Based Flexible Substrates for Flexible Supercapacitors. **2021**, 59-93		1
156	Carbon Dioxide Tornado-Type Atmospheric-Pressure-Plasma-Jet-Processed rGO-SnO Nanocomposites for Symmetric Supercapacitors. **2021**, 14,		2
155	Pulse Electrodeposition of Polyaniline/Mn-Fe Binary Metal Hydroxide Composite Cathode Material for a Zn-Ion Hybrid Supercapacitor. *Journal of Electronic Materials*, **2021**, 50, 4407-4414	1.9	4

154	Self-assembled porous biomass carbon/RGO/nanocellulose hybrid aerogels for self-supporting supercapacitor electrodes. **2021**, 412, 128755		28
153	A Novel Hollow Carbon@MnO2 Electrospun Nanofiber Adsorbent for Efficient Removal of Pb2+ in Wastewater. **2021**, 37, 496-504		3
152	Pyrolysis of Enzymolysis-Treated Wood: Hierarchically Assembled Porous Carbon Electrode for Advanced Energy Storage Devices. **2021**, 31, 2101077		26
151	Facile synthesis of porous waist drum-like □Fe2O3 nanocrystals as electrode materials for supercapacitor application. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 18777-18789	2.1	0
150	Aromatic amine mediated ring opening of epoxides: A reaction catalyzed by biogenic iron oxide nanoparticles. **2021**, 98, 100056		
149	Synergistic Effects of FeO Nanotube/Polyaniline Composites for an Electrochemical Supercapacitor with Enhanced Capacitance. **2021**, 11,		2
148	Triboelectric nanogenerator/supercapacitor in-one self-powered textile based on PTFE yarn wrapped PDMS/MnO2NW hybrid elastomer. **2021**, 84, 105918		21
147	Surface modified zinc ferrite as a carbon-alternative negative electrode for high-energy hybrid supercapacitor. **2021**, 47, 16333-16341		1
146	Molten Salt Synthesis of Multiple Manganese Oxides/Graphene Composites in Facile and Large Scale with Enhanced Supercapacitor Performance. 1035, 746-751		
145	Manganese Oxide Carbon-Based Nanocomposite in Energy Storage Applications. **2021**, 2, 232-248		12
144	Preparation of NiCo2O4@CoS heterojunction composite as electrodes for high-performance supercapacitors. **2021**, 891, 115257		8
143	Interfacial Control of NiCoP@NiCoP Core-Shell Nanoflake Arrays as Advanced Cathodes for Ultrahigh-Energy-Density Fiber-Shaped Asymmetric Supercapacitors. *Small*, **2021**, 17, e2101617	11	10
142	Co-effect of cadmium and iron oxide nanoparticles on plasmid-mediated conjugative transfer of antibiotic resistance genes. **2021**, 152, 106453		6
141	MXene-CNT/PANI ternary material with excellent supercapacitive performance driven by synergy. **2021**, 868, 159159		15
140	Wood-Derived, Conductivity and Hierarchical Pore Integrated Thick Electrode Enabling High Areal/Volumetric Energy Density for Hybrid Capacitors. *Small*, **2021**, 17, e2102532	11	15
139	A Facile One-Pot Hydrothermal Synthesis of Zn, Mn Co-Doped NiCo2O4 as an Efficient Electrode for Supercapacitor Applications. **2021**, 6, 6851-6862		1
138	Asymmetric Supercapacitors with Nanostructured RuS2. **2021**, 35, 12671-12679		1
137	Asymmetric Fiber Supercapacitors Based on a FeC2O4/FeOOH-CNT Hybrid Material. **2021**, 7, 62		0

136	Facile Synthesis of Coral Reef-Like ZnO/CoS2 Nanostructure on Nickel Foam as an Advanced Electrode Material for High-Performance Supercapacitors. **2021**, 14, 4925		2
135	Enhanced Electrochemical Performance of Hydrothermally Synthesized NiS/ZnS Composites as an Electrode for Super-Capacitors. 1		1
134	MOF-derived Fe2O3 decorated with MnO2 nanosheet arrays as anode for high energy density hybrid supercapacitor. **2021**, 417, 129243		27
133	Flexible high-energy and stable rechargeable vanadium-zinc battery based on oxygen defect modulated V2O5 cathode. **2021**, 87, 106164		13
132	A top-down cutting method for construction of high-performance fiber-shaped quasi-solid-state asymmetric supercapacitors. **2021**, 21, 100758		
131	Binary vanadium pentoxide carbon-graphene foam composites derived from dark red hibiscus sabdariffa for advanced asymmetric supercapacitor. **2021**, 379, 20200347		1
130	Pseudocapacitive behaviour of iron oxides supported on carbon nanofibers as a composite electrode material for aqueous-based supercapacitors. *Journal of Energy Storage*, **2021**, 42, 103052	7.8	7
129	High performance PVDF HFP_RuO2 supercapacitors production by supercritical drying. **2021**, 176, 105323		1
128	Heterostructured polypyrrole/hybrid iron oxide composite film as highly stable anode for pseudocapacitors. *Journal of Power Sources*, **2021**, 513, 230550	8.9	0
127	MnO2/carbon nanotube-embedded carbon nanofibers as core□shell cables for high performing asymmetric flexible supercapacitors. **2021**, 103, 142-153		3
126	Surface-charge regulated TiO2 nanotube arrays as scaffold for constructing binder-free high-performance supercapacitor. **2021**, 567, 150832		5
125	A review of recent advances in electrode materials for emerging bioelectrochemical systems: From biofilm-bearing anodes to specialized cathodes. **2021**, 283, 131138		13
124	Simultaneously high mass-loading and volumetric energy density in Ag2O-intercalated MnO2-based supercapacitor with rapid electron/ion transport channels. **2021**, 426, 131188		5
123	Robust quasi-solid-state integrated asymmetric flexible supercapacitors with interchangeable positive and negative electrode based on all-conducting-polymer electrodes. **2021**, 887, 161362		3
122	High-capacity Bi2O3 anode for 2.4 V neutral aqueous sodium-ion battery-supercapacitor hybrid device through phase conversion mechanism. **2022**, 65, 605-615		6
121	A facile synthetic protocol of □Fe2O3@FeS2 nanocrystals for advanced electrochemical capacitors. **2021**, 23, 2432-2438		6
120	Rational construction of free-standing P-doped FeO nanowire arrays as highly effective electrocatalyst for overall water splitting.. **2021**, 11, 1233-1240		2
119	Boosting the electrochemical performance of hematite nanorods via quenching-induced metal single atom functionalization. *Journal of Materials Chemistry A*, **2021**, 9, 3492-3499	13	9

118	Oxygen-Deficient Iron Oxide Nanostructures for Photocatalytic Activities. **2021**, 355-388		
117	Selective deposition of metal oxide nanoflakes on graphene electrodes to obtain high-performance asymmetric micro-supercapacitors. *Nanoscale*, **2021**, 13, 3285-3294	7.7	5
116	Hierarchical ZnCo2S4 Nanowires as Advanced Electrodes for All Solid State Asymmetric Supercapacitors. **2018**, 8, 1702014		168
115	Fe2O3/hemp straw-based porous carbon composite for supercapacitor electrode materials. *Ionics*, **2020**, 26, 4039-4051	2.7	16
114	Ultrathin MnO2 nanosheets grown on hollow carbon spheres with enhanced capacitive performance. **2020**, 384, 126539		10
113	Self-stacked multilayer FeOCl supported on a cellulose-derived carbon aerogel: a new and high-performance anode material for supercapacitors. *Journal of Materials Chemistry A*, **2019**, 7, 9556-9564	13	32
112	Nanoengineered electrospun fibers and their biomedical applications: a review. **2021**, 7, 1-34		17
111	Performance of Electrochemically Synthesized Nickel-Zinc and Nickel-Iron (Ni2Zn//NiFe) Nanowires as Battery Type Supercapacitor. **2020**, 167, 120527		20
110	ReviewA Review of Advanced Electronic Applications Based on Carbon Nanomaterials. **2020**, 9, 071002		3
109	Structure-Enhanced Mechanically Robust Graphite Foam with Ultrahigh MnO Loading for Supercapacitors. **2020**, 2020, 7304767		8
108	Three-dimensional carbon foam-metal oxide-based asymmetric electrodes for high-performance solid-state micro-supercapacitors. *Nanoscale*, **2021**, 13, 19453-19465	7.7	2
107	Wide Voltage Aqueous Asymmetric Supercapacitors: Advances, Strategies, and Challenges. 2108107		15
106	Conversion-Type Nonmetal Elemental Tellurium Anode with High Utilization for Mild/Alkaline Zinc Batteries. **2021**, e2105426		10
105	Nanostructured Fe2O3@C Negative Electrodes for Stable Asymmetric Supercapacitors with High-Performance. **2021**, 35, 16915-16924		1
104	Advanced Multifunctional Aqueous Rechargeable Batteries Design: From Materials and Devices to Systems. **2021**, e2104327		15
103	Applications of Carbon Based Materials in Developing Advanced Energy Storage Devices.		
102	Elevating kinetics of passivated Fe anodes with NH4Cl regulator: Toward low-cost, long-cyclic and green cathode-free Fe-ion aqueous batteries. 1		1
101	Regulating high specific capacitance NCS/MnO2 cathode and a wide potential window Fe2O3/rGO anode for the construction of 2.7V for high performance aqueous asymmetric supercapacitors. *Journal of Energy Storage*, **2021**, 44, 103343	7.8	2

100	A review of recent advances in manganese-based supercapacitors. *Journal of Energy Storage*, **2021**, 44, 103322	7.8	5
99	Introduction. **2018**, 1-29		
98	Hybrid Fe2O3 Nanoparticle Clusters/rGO Paper for Flexible Supercapacitors. **2018**, 91-104		
97	Charge storage behavior of sugar derived carbon/MnO2 composite electrode material for high-performance supercapacitors. **2022**, 893, 162232		3
96	Supercapacitor electrode fabrication through chemical and physical routes. *Journal of Power Sources*, **2022**, 519, 230744	8.9	7
95	Surface-engineered polyethersulfone membranes with inherent Fe-Mn bimetallic oxides for improved permeability and antifouling capability. **2022**, 204, 112390		1
94	Scalable synthesis of Fe2O3 based composite films as freestanding negative electrodes with ultra-high areal capacitances for high-performance asymmetric supercapacitors. **2022**, 29, 321		0
93	High voltage output/energy density flexible asymmetric fiber supercapacitors based on a tree-like topology. **2021**, 2, 100649		0
92	Nanoarchitectured transition metal oxides and their composites for supercapacitors.		0
91	Highly flexible and high energy density fiber supercapacitors based upon spiral silk composite membranes encapsulation. *Electrochimica Acta*, **2021**, 404, 139611	6.7	0
90	Electrochemical Performance of Delafossite, AgFeO2: A Pseudo-Capacitive Electrode in Neutral Aqueous Na2SO4 Electrolyte.		1
89	SWCNT/ZnO nanocomposite decorated with carbon dots for photoresponsive supercapacitor applications. **2021**, 431, 133915		4
88	Flexible synthesis of high-performance electrode materials of N-doped carbon coating MnO nanowires for supercapacitors. **2021**, 33,		
87	Rational Design of Cobalt-Iron Bimetal Layered Hydroxide on Conductive Fabric as a Flexible Battery-Type Electrode for Enhancing the Performance of Hybrid Supercapacitor. *SSRN Electronic Journal*,	1	
86	Hierarchically Structured Fe 2O 3@C Hollow Acanthospheres on Carbon Cloth as Anodes for High-Performance Asymmetric Supercapacitors. *SSRN Electronic Journal*,	1	
85	Advanced asymmetric supercapacitors with a squirrel cage structure FeO@carbon nanocomposite as a negative electrode.. **2021**, 11, 39399-39411		0
84	Fabrication of uniform MnO2 layer-modified activated carbon cloth for high-performance flexible quasi-solid-state asymmetric supercapacitor. **2022**, 57, 3497		1
83	Hierarchical CoNb2O6@CoOOH core-shell composite on carbon fabric for aqueous supercapacitor anode with high capacitance and super-long life. *Electrochimica Acta*, **2022**, 406, 139845	6.7	0

82	High Yield Design of Mesoporous Tetrakaidecahedron-Like Fe 2O 3 Nanocrystals with Enhanced Supercapacitive Performance. *SSRN Electronic Journal*,	1	
81	Unraveling CoNiP-CoP 3D-on-1D Hybrid Nanoarchitecture for Long-Lasting Electrochemical Hybrid Cells and Oxygen Evolution Reaction.. *Advanced Science*, **2022**, e2104877	13.6	3
80	Electrodeposition of CQDs/P-Fe2O3 on carbon cloth for flexible asymmetric supercapacitors. *Inorganic Chemistry Communication*, **2022**, 138, 109226	3.1	0
79	Alkali Cation Intercalation Manganese Phosphate Hydrate Boosting Electrochemical Kinetics for Pseudocapacitive Energy Storage. *Journal of Materiomics*, **2022**,	6.7	0
78	A Cu(II) Metal Organic Framework with a Tetranuclear Core: Structure, Magnetism, and Supercapacitor Activity. *Crystal Growth and Design*, **2022**, 22, 1172-1181	3.5	1
77	Enhanced sensitivity of hydrogenated Fe2O3 nanoplates having {001} facets and the gas sensing mechanism. *Journal of Materials Science: Materials in Electronics*, **2022**, 33, 3617	2.1	
76	Electrochemical Kinetics of Layered Manganese Phosphate via Interfacial Polypyrrole Chemical Binding. *ChemElectroChem*,	4.3	0
75	Recent advances in oxygen deficient metal oxides: Opportunities as supercapacitor electrodes. *International Journal of Energy Research*,	4.5	2
74	Sandwich-structured carbon nanofiber/MnO2/carbon nanofiber composites for high-performance supercapacitor. *Electrochimica Acta*, **2022**, 406, 139883	6.7	2
73	TiO2 nanoflowers@Au@MnO2 core-shell composite based on modified Ti foil for flexible supercapacitor electrode. *Electrochimica Acta*, **2022**, 407, 139866	6.7	3
72	Flexible all solid-state niobium nitride//activated carbon lithium-ion hybrid capacitor with high volumetric power and energy densities. *Journal of Energy Storage*, **2022**, 48, 104031	7.8	2
71	2D Heterostructures for Ubiquitous Electronics and Optoelectronics: Principles, Opportunities, and Challenges.. *Chemical Reviews*, **2022**,	68.1	28
70	All-Climate Stretchable Dendrite-Free Zn-Ion Hybrid Supercapacitors Enabled by Hydrogel Electrolyte Engineering. *Energy and Environmental Materials*,	13	0
69	Exploration of O-N-S heteroatom self-doped mesoporous activated carbon derived from Datura stramonium seed pods as a potential electrode for supercapacitor application. *Ionics*, 1	2.7	0
68	A Survey of Hybrid Energy Devices Based on Supercapacitors. *Green Energy and Environment*, **2022**,	5.7	1
67	High-Performance Cobalt-Doped Carbon Cloth Supported Porous Fe2o3 Flexible Electrode Material in Quasi-Solid Asymmetric Supercapacitors. *SSRN Electronic Journal*,	1	
66	Bifunctional PDDA-stabilized Fe2O3 nanoclusters for improved photoelectrocatalytic and magnetic field enhanced photocatalytic applications. *Catalysis Science and Technology*,	5.5	0
65	Acoustotemplating: rapid synthesis of freestanding quasi-2D MOF/graphene oxide heterostructures for supercapacitor applications. *Journal of Materials Chemistry A*, **2022**, 10, 7058-7072	13	3

64	Mechanistic Insights into the Interplay between Ion Intercalation and Water Electrolysis in Aqueous Batteries.. *ACS Applied Materials & Interfaces*, **2022**,	9.5	0
63	Jahn-Teller effect directed bandgap tuning of birnessite for pseudocapacitive application. *Energy and Environmental Materials*,	13	1
62	A highly compressible, nitrogen doped carbon foam based all pseudo-capacitance asymmetric supercapacitors. *Journal of Power Sources*, **2022**, 530, 231307	8.9	1
61	Flexible all-solid-state supercapacitors with high capacitance, long cycle life, and wide operational potential window: Recent progress and future perspectives. *Journal of Energy Storage*, **2022**, 50, 104223	7.8	4
60	Stereolithography-Derived Three-Dimensional Pyrolytic Carbon/MnO Nanostructures for Free-Standing Hybrid Supercapacitor Electrodes.. *ACS Applied Nano Materials*, **2022**, 5, 1808-1819	5.6	1
59	Harvesting Electricity by Harnessing Nature: Bioelectricity, Triboelectricity, and Method of Storage. 1-25		
58	SnSe/SnS: Multifunctions Beyond Thermoelectricity. 1, 1-20		4
57	Data_Sheet_1.pdf. **2019**,		
56	One-pot synthesis of Mn-doped goethite composite for enhanced supercapacitor performance and charge storage mechanism. *Journal of Materials Science: Materials in Electronics*,	2.1	
55	One-Pot synthesis of CuO-Cu2O nanoscrubbers for high-performance pseudo-supercapacitors applications. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2022**, 281, 115755	3.1	0
54	MnO2 core-shell type materials for high-performance supercapacitors: A short review. *Inorganic Chemistry Communication*, **2022**, 141, 109493	3.1	2
53	Wood-Derived High-Mass-Loading MnO Composite Carbon Electrode Enabling High Energy Density and High-Rate Supercapacitor.. *Small*, **2022**, e2201307	11	2
52	Cu9S5/Fe2O3 Nanospheres as Advanced Negative Electrode Materials for High Performance Battery-like Hybrid Capacitors. *ACS Applied Energy Materials*,	6.1	
51	Three dimensional FeCo2O4 nanosheets for integrated all-solid-state supercapacitors and electrochemical energy-saving H2 production. *Materials Chemistry and Physics*, **2022**, 126332	4.4	1
50	Cobalt vanadium chalcogenide microspheres decorated with dendrite-like fiber nanostructures for flexible wire-typed energy conversion and storage microdevices. *Nanoscale*,	7.7	1
49	Sub-Second Joule-Heated RuO2-Decorated Nitrogen- and Sulfur-Doped Graphene Fibers for Flexible Fiber-type Supercapacitors. *ACS Applied Materials & Interfaces*,	9.5	0
48	Hierarchical mesoporous selenium@bimetallic selenides quadrilateral nanosheets array for advanced flexible asymmetric supercapacitor. *Journal of Materials Chemistry A*,	13	2
47	One-Step Calcination Process for the Construction of Oxygen Deficient Fe2O3/N, P Co-doped Carbon Composites for High-Performance Supercapacitors. *Journal of Electronic Materials*,	1.9	1

46	Mn 3+ -rich Manganese Phosphate Targeted for Enhanced Oxygen Reduction Reaction in Zinc-Air Batteries.	
45	Recycled ZnO-fused macroporous 3D graphene oxide aerogel composites for high-performance asymmetric supercapacitors.	0
44	Chemically Synthesized Iron-Oxide-Based Pure Negative Electrode for Solid-State Asymmetric Supercapacitor Devices. **2022**, 15, 6133	1
43	Hierarchically structured Fe2O3@C hollow acanthospheres on carbon cloth as anodes for high-performance asymmetric supercapacitors. **2022**, 929, 167245	1
42	Precisely controllable oxygen vacancy-manufactured Ov-Co3O4@PPy for high energy density supercapacitor. **2022**, 606, 154863	0
41	High-performance cobalt-doped carbon cloth supported porous Fe2O3 flexible electrode material in quasi-solid asymmetric supercapacitors. **2022**, 929, 167141	1
40	2.5 V water in salt aqueous micro-supercapacitors based on polypyrrole-coated NiCo layered double hydroxides. **2023**, 452, 139140	0
39	Flexible Carbon Cloth Supercapacitors with High Power and Energy Densities.	0
38	Metal oxide-based nanocomposites for supercapacitive applications. **2022**, 187-211	0
37	Facile, Cost Effective and Eco-friendly Approach to Synthesize Bio-MnO 2 Nanosphered Thin Filmfor all Solid-State Flexible Asymmetric Supercapacitor. **2022**, 7,	0
36	Laser irradiation of graphite foils as robust current collectors for high-mass loaded electrodes of supercapacitors.	0
35	Sodium-Intercalated Manganese Oxides for Achieving Ultra-Stable and Fast Charge Storage Kinetics in Wide-Voltage Aqueous Supercapacitors. 2206539	0
34	Phase- and Crystal Structure-Controlled Synthesis of Bi2O3, Fe2O3, and BiFeO3 Nanomaterials for Energy Storage Devices.	0
33	In Vitro and in Vivo Studies of Folate-Functionalized PEGylated Chitosan/Superparamagnetic Iron Oxide Nanoparticle for the Fibrosarcoma-Targeted Delivery of Paclitaxel.	0
32	Thin-film electrodeposition of Fe2O3/MnO2 on TiO2 as an anode for high energy density hybrid supercapacitor.	0
31	Waste Derived Supports for Immobilization of Lipase Towards Enhancing Efficiency and Reusability of Enzymes. **2022**, 135-160	0
30	Advanced aqueous sodium-ion capacitors based on Ni0.25Mn0.75O nanoparticles encapsulated in electrospinning carbon nanofibers. **2022**, 51, 16236-16242	0
29	Novel Prussian White@MnO2-Based Inorganic Electrochromic Energy Storage Devices with Integrated Flexibility, Multicolor, and Long Life. **2022**, 14, 48833-48843	2

28	Preparation of rGO/MXene@NiCo-P and rGO/MXene@Fe2O3 positive and negative composite electrodes for high-performance asymmetric supercapacitors. **2022**, 56, 105986	0
27	Enhanced electrochromic capacity performances of hierarchical MnO2-polyaniline/PEDOT:PSS/Ag@Ni nanowires cathode for flexible and rechargeable electrochromic Zn-Ion battery. **2023**, 452, 139555	3
26	Status on electrodeposited manganese dioxide and biowaste carbon for hybrid capacitors: The case of high-quality oxide composites, mechanisms, and prospects. **2022**, 56, 106099	2
25	Heteroatom preintercalated Cl-terminated Ti3C2Tx MXene wrapped with mesoporous Fe2O3 nanospheres for improved sodium ion storage.	1
24	Facile syntheses of Fe2O3-rGO and NiCo-LDH-rGO nanocomposites for high-performance electrochemical capacitors. **2023**, 634, 357-368	0
23	Double-Carbon Matrix-Supported MnO2 for High-Voltage Supercapacitors in a Neutral Aqueous System. **2022**, 5, 15874-15880	1
22	Semi-Embedding Zn-Co3O4 Derived from Hybrid ZIFs into Wood-Derived Carbon for High-Performance Supercapacitors. **2022**, 27, 8572	1
21	Three dimensional FeCo2O4@MnO2 core-shell nanocomposites for integrated solid-state asymmetric supercapacitors. **2023**, 111230	0
20	Polypyrrole-Coated Low-Crystallinity Iron Oxide Grown on Carbon Cloth Enabling Enhanced Electrochemical Supercapacitor Performance. **2023**, 28, 434	0
19	Pd□Co-Based Electrodes for Hydrogen Production by Water Splitting in Acidic Media. **2023**, 16, 474	0
18	Effects of Calcium Substitution for La on the Electrochemical Performance of LaMnO 3 Nanoparticles. **2023**, 8,	0
17	Recent progress on development of electrolyte and aerogel electrodes applied in supercapacitors. **2023**, 560, 232698	3
16	Configuration-dependent stretchable all-solid-state supercapacitors and hybrid supercapacitors.	0
15	Manganese (Sulfide/Oxide) based electrode materials advancement in supercapattery devices. **2023**, 158, 107366	1
14	Chemically Deposited Iron Chalcogenide-Based Carbon Composites for Supercapacitor Applications. **2023**, 83-121	0
13	Redox active cement-based electrolyte towards high-voltage asymmetric solid supercapacitor. **2023**, 138, 104987	0
12	Improved electrochemical performance of sandwich-structured N-rich C@MnO2@C electrodes. **2023**, 207, 154-161	0
11	Rational design of flower-like MnO2/Ti3C2T x composite electrode for high performance supercapacitors. **2023**, 34, 255602	0

10	Ultrahigh energy density solid state supercapacitor based on metal halide perovskite nanocrystal electrodes: Real-life applications. **2023**, 65, 107215	0
9	Role of oxygen vacancies and porosity in enhancing the electrochemical properties of Microwave synthesized hematite (Fe2O3) nanostructures for supercapacitor application. **2023**, 210, 111903	0
8	Targeted delivery of paclitaxel drug using polymer-coated magnetic nanoparticles for fibrosarcoma therapy: in vitro and in vivo studies. **2023**, 13,	0
7	Recent advances in hierarchical MoS2/graphene-based materials for supercapacitor applications. **2023**, 25, 8263-8280	0
6	Marine predators optimization and ANFIS as an effective tools for maximization of specific capacity of G-NiO electrode for electrochemical energy storage. **2023**, 102210	0
5	Flexible Inorganic All-Solid-State Electrochromic Devices toward Visual Energy Storage and Two-Dimensional Color Tunability. **2023**, 15, 15646-15656	0
4	Electrode Fabrication Techniques for Li Ion Based Energy Storage System: A Review. **2023**, 9, 184	0
3	Metal oxide nanomaterials for supercapacitor applications. **2023**, 343-364	0
2	Unique hierarchical architecture of SnO2 hexagonal interconnected nanolayered arrays as negative electrode for high performance asymmetric supercapacitors. **2023**, 127796	0
1	Construction of vertically aligned MnCo2O4 needles and Bi2WO6 globules as optimal electrode materials for hybrid supercapacitor. **2023**, 459, 142545	0