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## Hydrogenated TiO<sub>2</sub> nanotube arrays for supercapacitors

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#	Paper	IF	Citations
1182	Hierarchical Structure Formation and Effect Mechanism of Ni/Mn Layered Double Hydroxides Microspheres with Large-Scale Production for Flexible Asymmetric Supercapacitors.		
1181	.		
1180	MolybdenumTungsten Mixed Oxide Deposited into Titanium Dioxide Nanotube Arrays for Ultrahigh Rate Supercapacitors.		
1179	Hollow core-shell nanostructure supercapacitor electrodes: gap matters. <b>2012</b> , 5, 9085		169
1178	Facile synthesis of hierarchical Bi <sub>2</sub> S <sub>3</sub> nanostructures for photodetector and gas sensor. <b>2012</b> , 2, 6258		63
1177	Enhanced field emission from hydrogenated TiO <sub>2</sub> nanotube arrays. <b>2012</b> , 23, 455204		89
1176	Porous Pr(OH) <sub>3</sub> nanostructures as high-efficiency adsorbents for dye removal. <b>2012</b> , 28, 11078-85		46
1175	Fiber-based all-solid-state flexible supercapacitors for self-powered systems. <b>2012</b> , 6, 9200-6		554
1174	Benzoxazole and benzimidazole heterocycle-grafted graphene for high-performance supercapacitor electrodes. <b>2012</b> , 22, 23439		112
1173	Facile electrochemical synthesis of ZnO/PbSe heterostructure nanorod arrays and PbSe nanotube arrays. <i>Applied Surface Science</i> , <b>2012</b> , 258, 8959-8964	6.7	21
1172	One-step hydrothermal synthesis of hexangular starfruit-like vanadium oxide for high power aqueous supercapacitors. <b>2012</b> , 219, 253-257		55
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1170	Oxygen-deficient metal oxide nanostructures for photoelectrochemical water oxidation and other applications. <b>2012</b> , 4, 6682-91		306
1169	Hydrothermal growth of SnS <sub>2</sub> hollow spheres and their electrochemical properties. <b>2012</b> , 14, 4279		73
1168	Hydrogenated Li(4)Ti(5)O(12) nanowire arrays for high rate lithium ion batteries. <b>2012</b> , 24, 6502-6		411
1167	Efficient photocatalytic hydrogen evolution over hydrogenated ZnO nanorod arrays. <b>2012</b> , 48, 7717-9		221
1166	Super-capacitive performances of nickel foam supported CeO <sub>2</sub> nanoparticles. <b>2012</b> , 17, 513-516		5

1165	Design and synthesis of MnO <sub>2</sub> /Mn/MnO <sub>2</sub> sandwich-structured nanotube arrays with high supercapacitive performance for electrochemical energy storage. <i>Nano Letters</i> , <b>2012</b> , 12, 3803-7	11.5	381
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1163	Cotton-assisted preparation of mesoporous manganese oxide for supercapacitors. <b>2012</b> , 2, 6741		19
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1156	A Facile Method to Improve the Photocatalytic and Lithium-Ion Rechargeable Battery Performance of TiO <sub>2</sub> Nanocrystals. <b>2013</b> , 3, 1516-1523		149
1155	High-Performance Pseudocapacitor Electrodes Based on Fe <sub>2</sub> O <sub>3</sub> /MnO <sub>2</sub> Core-Shell Nanowire Heterostructure Arrays. <b>2013</b> , 117, 15523-15531		179
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1147	Phase dependent growth of superficial nanowalls-like structure on TiO <sub>2</sub> thin films in molecular hydrogen (H <sub>2</sub> ) annealing environment. <b>2013</b> , 38, 12497-12502	3	
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1144	Electrochemical capacitance performance of titanium nitride nanoarray. <b>2013</b> , 178, 1443-1451	84	
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1140	Electrochemical behavior of V <sub>2</sub> O <sub>5</sub> ·0.6H <sub>2</sub> O nanoribbons in neutral aqueous electrolyte solution. <i>Electrochimica Acta</i> , <b>2013</b> , 96, 8-12	6.7	68
1139	Flexible hierarchical nanocomposites based on MnO <sub>2</sub> nanowires/CoAl hydrotalcite/carbon fibers for high-performance supercapacitors. <b>2013</b> , 3, 1045-1049	71	
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1135	Nano-aggregates of cobalt nickel oxysulfide as a high-performance electrode material for supercapacitors. <b>2013</b> , 5, 11615-9	55	
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1122	Performance characteristics of supercapacitor electrodes made of silicon carbide nanowires grown on carbon fabric. <b>2013</b> , 243, 648-653		73
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1115	Synergy of low-energy {101} and high-energy {001} TiO <sub>2</sub> crystal facets for enhanced photocatalysis. <b>2013</b> , 7, 2532-40		400
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1104	3D MnO <sub>2</sub> -graphene composites with large areal capacitance for high-performance asymmetric supercapacitors. <b>2013</b> , 5, 6790-6		234
1103	TiO <sub>2</sub> @C core-shell nanowires for high-performance and flexible solid-state supercapacitors. <b>2013</b> , 1, 225-229		176
1102	Supported noble metals on hydrogen-treated TiO <sub>2</sub> nanotube arrays as highly ordered electrodes for fuel cells. <b>2013</b> , 6, 659-66		78
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1094	Synthesis, characterization and enhanced gas sensing performance of WO <sub>3</sub> nanotube bundles. <i>New Journal of Chemistry</i> , <b>2013</b> , 37, 4241	3.6	46

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1092	Unique hydrogenated Ni/NiO core/shell 1D nano-heterostructures with superior electrochemical performance as supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 12759	13	93
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1087	Solution Processed TiO <sub>2</sub> Nanotubular Core with Polypyrrole Conducting Polymer Shell Structures for Supercapacitor Energy Storage Devices. <b>2013</b> , 1547, 69-74		2
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1085	Enhancing microwave absorption of TiO <sub>2</sub> nanocrystals via hydrogenation. <b>2014</b> , 29, 2198-2210		59
1084	Freestanding MoO <sub>3</sub> /nanobelt/carbon nanotube films for Li-ion intercalation pseudocapacitors. <b>2014</b> , 9, 355-363		125
1083	A novel planar integration of all-solid-state capacitor and photodetector by an ultra-thin transparent sulfated TiO <sub>2</sub> film. <b>2014</b> , 9, 252-263		17
1082	Optical fiber with nanostructured cladding of TiO <sub>2</sub> nanoparticles self-assembled onto a side polished fiber and its temperature sensing. <b>2014</b> , 22, 32502-8		31
1081	TiO <sub>2</sub> nanotube arrays prepared by anodization as an adsorbent in micro-solid-phase extraction to preconcentrate and determine nitrogen-containing polycyclic aromatic hydrocarbons in water samples. <b>2014</b> , 37, 1012-7		11
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1079	Synthesis of polypyrrole/titanium dioxide brush-like nanocomposites with enhanced supercapacitive performance. <b>2014</b> , 4, 63719-63724		15
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1077	Influence of the Amount of Hydrogen Fluoride on the Formation of (001)-Faceted Titanium Dioxide Nanosheets and Their Photocatalytic Hydrogen Generation Performance. <b>2014</b> , 79, 1159-1166		21
1076	Amorphous Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> Thin Film with Enhanced Lithium Storage Capability and Reversibility for Lithium-Ion Batteries. <b>2014</b> , 2, 767-772		16

1075	Effect of Quenching Temperature and Medium on Properties of TiO <sub>2</sub> Nanotube Arrays in DSSC. <b>2014</b> , 624, 91-96		2
1074	Enhanced supercapacitor performance using hierarchical TiO <sub>2</sub> nanorod/Co(OH) <sub>2</sub> nanowall array electrodes. <i>Electrochimica Acta</i> , <b>2014</b> , 136, 105-111	6.7	39
1073	Coexistence of piezoelectricity and electric conduction in oxygen-deficient NaNbO <sub>3</sub> sub-micron cubes. <b>2014</b> , 182, 81-85		2
1072	Photoelectrochemical Water Splitting with Rutile TiO <sub>2</sub> Nanowires Array: Synergistic Effect of Hydrogen Treatment and Surface Modification with Anatase Nanoparticles. <i>Electrochimica Acta</i> , <b>2014</b> , 130, 290-295	6.7	74
1071	Hierarchical nanocomposite electrodes based on titanium nitride and carbon nanotubes for micro-supercapacitors. <b>2014</b> , 7, 104-113		107
1070	ZnO nanorods inserted graphene sheets with improved supercapacitive performance. <i>Applied Surface Science</i> , <b>2014</b> , 292, 544-550	6.7	26
1069	Synthesis of microsphere silicon carbide/nanoneedle manganese oxide composites and their electrochemical properties as supercapacitors. <b>2014</b> , 265, 214-222		26
1068	Morphologically-tunable anatase TiO <sub>2</sub> with exposed (001) facet and related photocatalytic performance. <b>2014</b> , 128, 167-169		8
1067	High visible light activity of hydrogenated structure-engineered mixed phase titania photocatalyst. <b>2014</b> , 597, 63-68		21
1066	High-performance supercapacitor electrodes based on hierarchical Ti@MnO(2) nanowire arrays. <b>2014</b> , 50, 2876-8		55
1065	Carbon/MnO(2) double-walled nanotube arrays with fast ion and electron transmission for high-performance supercapacitors. <b>2014</b> , 6, 2726-33		97
1064	Electronic properties of polypyrrole based TiO <sub>2</sub> nanofiber composite. <b>2014</b> , 131, n/a-n/a		2
1063	Supercapacitor/biofuel cell hybrids based on wired enzymes on carbon nanotube matrices: autonomous reloading after high power pulses in neutral buffered glucose solutions. <b>2014</b> , 7, 1884-1888		106
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1044	CHAPTER 5:Nanotubes for Energy Storage. <b>2014</b> , 121-198		
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1027	The role of the Ti surface roughness in the self-ordering of TiO <sub>2</sub> nanotubes: a detailed study of the growth mechanism. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 9067-9078	13	40
1026	NH <sub>4</sub> <sup>+</sup> treatment of TiO <sub>2</sub> nanotubes: from N-doping to semimetallic conductivity. <b>2014</b> , 50, 7960-3		22
1025	Fabrication of N-doped TiO <sub>2</sub> coatings on nanoporous Si nanopillar arrays through biomimetic layer by layer mineralization. <b>2014</b> , 43, 8480-5		13
1024	Magnetic field-assisted electroless anodization: TiO <sub>2</sub> nanotube growth on discontinuous, patterned Ti films. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 13810-13816	13	6
1023	High performance rigid and flexible visible-light photodetectors based on aligned X(In, Ga)P nanowire arrays. <b>2014</b> , 2, 1270-1277		50
1022	Construction of 3D V <sub>2</sub> O <sub>5</sub> /hydrogenated-WO <sub>3</sub> nanotrees on tungsten foil for high-performance pseudocapacitors. <b>2014</b> , 16, 12214-20		35

1021	Safe and facile hydrogenation of commercial Degussa P25 at room temperature with enhanced photocatalytic activity. <b>2014</b> , 4, 1128-1132		109
1020	One-dimensional titanium dioxide nanomaterials: nanotubes. <b>2014</b> , 114, 9385-454		885
1019	Hydrogenated black ZnO nanoparticles with enhanced photocatalytic performance. <b>2014</b> , 4, 41654-41658		69
1018	Slightly hydrogenated TiO <sub>2</sub> with enhanced photocatalytic performance. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 12708-12716	13	164
1017	Fabrication, modification, and biomedical applications of anodized TiO <sub>2</sub> nanotube arrays. <b>2014</b> , 4, 17300-17324		109
1016	Blue TiO <sub>2</sub> Nanotube Array as an Oxidant Generating Novel Anode Material Fabricated by Simple Cathodic Polarization. <i>Electrochimica Acta</i> , <b>2014</b> , 141, 113-119	6.7	70
1015	C-axis preferentially oriented and fully activated TiO <sub>2</sub> nanotube arrays for lithium ion batteries and supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 11454-11464	13	61
1014	Redox deposition of birnessite-type manganese oxide on silicon carbide microspheres for use as supercapacitor electrodes. <b>2014</b> , 6, 9036-45		53
1013	Efficient synthesis of hierarchical NiO nanosheets for high-performance flexible all-solid-state supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 10917-10922	13	76
1012	Rapid and controllable flame reduction of TiO <sub>2</sub> nanowires for enhanced solar water-splitting. <i>Nano Letters</i> , <b>2014</b> , 14, 24-31	11.5	153
1011	In situ hydrogenation of molybdenum oxide nanowires for enhanced supercapacitors. <b>2014</b> , 4, 8741		43
1010	Vertically aligned ZnO@CuS@PEDOT core@shell nanorod arrays decorated with MnO <sub>2</sub> nanoparticles for a high-performance and semi-transparent supercapacitor electrode. <b>2014</b> , 50, 5652-5		67
1009	Hierarchically porous nickel oxide nanoflake arrays grown on carbon cloth by chemical bath deposition as superior flexible electrode for supercapacitors. <b>2014</b> , 136, 198-201		21
1008	Oxygen vacancies enhancing capacitive properties of MnO <sub>2</sub> nanorods for wearable asymmetric supercapacitors. <b>2014</b> , 8, 255-263		323
1007	Synthesis of Cuboid-Shaped Single-Crystalline TiO <sub>2</sub> Nanocrystals with High-Energy Facets {001} and Its Dye-Sensitized Solar Cell Application. <b>2014</b> , 118, 16703-16709		24
1006	Hierarchically structured TiO <sub>2</sub> @MnO <sub>2</sub> nanowall arrays as potential electrode material for high-performance supercapacitors. <b>2014</b> , 39, 12201-12212		51
1005	Sulfur cathodes with hydrogen reduced titanium dioxide inverse opal structure. <b>2014</b> , 8, 5249-56		273
1004	Unveiling Two Electron-Transport Modes in Oxygen-Deficient TiO <sub>2</sub> Nanowires and Their Influence on Photoelectrochemical Operation. <b>2014</b> , 5, 2890-6		46

1003	Fabrication of multilayered TiO <sub>2</sub> nanotube arrays and separable nanotube segments. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 4510	13	13
1002	DNA mediated wire-like clusters of self-assembled TiO <sub>2</sub> nanomaterials: supercapacitor and dye sensitized solar cell applications. <b>2014</b> , 6, 8010-23		48
1001	Unveiling the dynamic capacitive storage mechanism of Co <sub>3</sub> O <sub>4</sub> @NiCo <sub>2</sub> O <sub>4</sub> hybrid nanoelectrodes for supercapacitor applications. <i>Electrochimica Acta</i> , <b>2014</b> , 145, 177-184	6.7	67
1000	Enhanced visible-light photoelectrochemical behaviour of heterojunction composite with Cu <sub>2</sub> O nanoparticles-decorated TiO <sub>2</sub> nanotube arrays. <i>New Journal of Chemistry</i> , <b>2014</b> , 38, 4975-4984	3.6	42
999	Controlled assembly of Bi <sub>2</sub> S <sub>3</sub> architectures as Schottky diode, supercapacitor electrodes and highly efficient photocatalysts. <b>2014</b> , 4, 41636-41641		42
998	Reduced graphene oxide modified highly ordered TiO <sub>2</sub> nanotube arrays photoelectrode with enhanced photoelectrocatalytic performance under visible-light irradiation. <b>2014</b> , 16, 14800-7		82
997	One-step synthesis of TiO <sub>2</sub> nanorod arrays on Ti foil for supercapacitor application. <b>2014</b> , 25, 435406		19
996	High-performance all-solid-state flexible micro-supercapacitor arrays with layer-by-layer assembled MWNT/MnO(x) nanocomposite electrodes. <b>2014</b> , 6, 9655-64		70
995	Titanium dioxide nanotube arrays modified with a nanocomposite of silver nanoparticles and reduced graphene oxide for electrochemical sensing. <b>2014</b> , 181, 1325-1331		38
994	Black TiO <sub>2</sub> nanotubes: cocatalyst-free open-circuit hydrogen generation. <i>Nano Letters</i> , <b>2014</b> , 14, 3309-1315	11.5	367
993	Enhanced performance of layered titanate nanowire-based supercapacitor electrodes by nickel ion exchange. <b>2014</b> , 6, 4578-86		87
992	Facile hydrothermal fabrication of nitrogen-doped graphene/Fe <sub>2</sub> O <sub>3</sub> composites as high performance electrode materials for supercapacitor. <b>2014</b> , 604, 87-93		94
991	Enhanced Photocatalytic Water Splitting by Plasmonic TiO <sub>2</sub> @Fe <sub>2</sub> O <sub>3</sub> Cocatalyst under Visible Light Irradiation. <b>2014</b> , 118, 12676-12681		54
990	Hydrogenated CoO <sub>x</sub> nanowire@Ni(OH) <sub>2</sub> nanosheet core-shell nanostructures for high-performance asymmetric supercapacitors. <b>2014</b> , 6, 6772-81		98
989	Catalytic oxidation of formaldehyde on surface of HTiO <sub>2</sub> /HCTiO <sub>2</sub> without light illumination at room temperature. <b>2014</b> , 147, 490-498		87
988	High-capacitance MnO <sub>2</sub> nanoflakes on preformed C/TiO <sub>2</sub> shell/core nanowire arrays for electrochemical energy storage. <i>Electrochimica Acta</i> , <b>2014</b> , 120, 416-422	6.7	28
987	Synthesis of hydrogenated TiO <sub>2</sub> /reduced-graphene oxide nanocomposites and their application in high rate lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 9150-9155	13	35
986	Hydrogenation of nanostructured semiconductors for energy conversion and storage. <b>2014</b> , 59, 2144-2161		14

985	Comparison of the effect of hydrogen incorporation and oxygen vacancies on the properties of anatase TiO <sub>2</sub> : electronics, optical absorption, and interaction with water. <b>2014</b> , 59, 2175-2180		9
984	Electrochemically Self-Doped TiO <sub>2</sub> Nanotube Arrays for Supercapacitors. <b>2014</b> , 118, 5626-5636		223
983	Hybrid nanonet/nanoflake NiCo <sub>2</sub> O <sub>4</sub> electrodes with an ultrahigh surface area for supercapacitors. <b>2014</b> , 18, 3143-3152		21
982	All-solid-state flexible thin-film supercapacitors with high electrochemical performance based on a two-dimensional V <sub>2</sub> O <sub>5</sub> /H <sub>2</sub> O/graphene composite. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 10876	13	63
981	Great improvement in pseudocapacitor properties of nickel hydroxide via simple gold deposition. <b>2014</b> , 6, 11646-52		52
980	Solvothermal synthesis of mesoporous TiO <sub>2</sub> : The effect of morphology, size and calcination progress on photocatalytic activity in the degradation of gaseous benzene. <i>Chemical Engineering Journal</i> , <b>2014</b> , 237, 312-321	14.7	79
979	A new type of porous graphite foams and their integrated composites with oxide/polymer core/shell nanowires for supercapacitors: structural design, fabrication, and full supercapacitor demonstrations. <i>Nano Letters</i> , <b>2014</b> , 14, 1651-8	11.5	395
978	Enhanced capacitive performance of TiO <sub>2</sub> nanotubes with molybdenum oxide coating. <i>Applied Surface Science</i> , <b>2014</b> , 300, 165-170	6.7	45
977	Self-assembly of NiO/graphene with three-dimension hierarchical structure as high performance electrode material for supercapacitors. <b>2014</b> , 597, 291-298		66
976	Facile synthesis of porous Pr(OH) <sub>3</sub> nanowire bundles and their magnetic properties. <b>2014</b> , 46, 21-23		7
975	Three-dimensional nanoporous TiO <sub>2</sub> network films with excellent electrochemical capacitance performance. <b>2014</b> , 597, 1-7		23
974	Ultrathin MnO <sub>2</sub> nanosheets supported on cellulose based carbon papers for high-power supercapacitors. <b>2014</b> , 246, 754-761		108
973	Titanium dioxide nanomaterials: self-structural modifications. <b>2014</b> , 114, 9890-918		391
972	Hydrogenation Synthesis of Blue TiO <sub>2</sub> for High-Performance Lithium-Ion Batteries. <b>2014</b> , 118, 8824-8830		146
971	Fully solar-powered photoelectrochemical conversion for simultaneous energy storage and chemical sensing. <i>Nano Letters</i> , <b>2014</b> , 14, 3668-73	11.5	52
970	Integrated Photo-supercapacitor Based on Bi-polar TiO <sub>2</sub> Nanotube Arrays with Selective One-Side Plasma-Assisted Hydrogenation. <b>2014</b> , 24, 1840-1846		140
969	Hydrogenated uniform Pt clusters supported on porous CaMnO <sub>3</sub> as a bifunctional electrocatalyst for enhanced oxygen reduction and evolution. <b>2014</b> , 26, 2047-51		214
968	MnO <sub>2</sub> /carbon nanowall electrode for future energy storage application: effect of carbon nanowall growth period and MnO <sub>2</sub> mass loading. <b>2014</b> , 4, 20479-20488		42

967	Improving the Cycling Stability of Metal Nitride Supercapacitor Electrodes with a Thin Carbon Shell. <b>2014</b> , 4, 1300994		188
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965	Simple electrochemical synthesis of black metal oxides for enhanced visible light absorption. <b>2014</b> , 130, 131-134		1
964	Self-standing rationally functionalized graphene as high-performance electrode materials for supercapacitors. <i>Journal of Energy Chemistry</i> , <b>2014</b> , 23, 346-353	12	14
963	Hierarchical Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> particles co-modified with C&N towards enhanced performance in lithium-ion battery applications. <i>Electrochimica Acta</i> , <b>2014</b> , 116, 224-229	6.7	36
962	Hydrogenated Anatase: Strong Photocatalytic Dihydrogen Evolution without the Use of a Co-Catalyst. <b>2014</b> , 126, 14425-14429		31
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960	Niobium Nitride NbN as a New High-Performance Electrode Material for Supercapacitors. <b>2015</b> , 2, 1500126		126
959	Titanium Dioxide Nanomaterials. <b>2015</b> , 1-38		7
958	Hydrogen Impurity Defects in Rutile TiO <sub>2</sub> . <b>2015</b> , 5, 17634		37
957	VO <sub>2</sub> /TiO <sub>2</sub> Nanosponges as Binder-Free Electrodes for High-Performance Supercapacitors. <b>2015</b> , 5, 16012		56
956	Controlled-Fabrication of Sandwich-Structured NiO/Ni/NiO Nanotube Arrays for Energy Storage. <b>2015</b> ,		
955	A Designed TiO <sub>2</sub> /Carbon Nanocomposite as a High-Efficiency Lithium-Ion Battery Anode and Photocatalyst. <b>2015</b> , 21, 14871-8		15
954	Determination of phthalate esters from environmental water samples by micro-solid-phase extraction using TiO <sub>2</sub> nanotube arrays before high-performance liquid chromatography. <b>2015</b> , 38, 2526-31		11
953	The Hydric Effect in Inorganic Nanomaterials for Nanoelectronics and Energy Applications. <b>2015</b> , 27, 3850-67		47
952	Spatially Confined MnO <sub>2</sub> Nanostructure Enabling Consecutive Reversible Charge Transfer from Mn(IV) to Mn(II) in a Mixed Pseudocapacitor-Battery Electrode. <b>2015</b> , 5, 1500772		47
951	Fabrication of Photocatalyst Composite Coatings of Cr-TiO <sub>2</sub> by Mechanical Coating Technique and Oxidation Process. <b>2015</b> , 5, 545-556		1
950	Effects of different electrolytes on the electrochemical and dynamic behavior of electric double layer capacitors based on a porous silicon carbide electrode. <b>2015</b> , 17, 16367-74		38

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944	Trap-state passivation of titania nanotubes by electrochemical doping for enhanced photoelectrochemical performance. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 360-367	13	39
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931	Graphene-modified TiO <sub>2</sub> nanotube arrays as an adsorbent in micro-solid phase extraction for determination of carbamate pesticides in water samples. <b>2015</b> , 869, 43-9		51
930	Superior electric double layer capacitors using micro- and mesoporous silicon carbide sphere. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 3944-3951	13	39
929	Ni@NiO core-shell nanoparticle tube arrays with enhanced supercapacitor performance. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 6432-6439	13	68
928	Titanium Dioxide Nanotube Films for Electrochemical Supercapacitors: Biocompatibility and Operation in an Electrolyte Based on a Physiological Fluid. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, A5065-A5069	3.9	29
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922	Recyclable Non-Enzymatic Glucose Sensor Based on Ni/NiTiO <sub>2</sub> /TiO <sub>2</sub> Nanotube Arrays. <b>2015</b> , 80, 576-582		29
921	Black titanium dioxide (TiO <sub>2</sub> ) nanomaterials. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 1861-85	58.5	958
920	Direct synthesis of pure single-crystalline Magn $\eta$ phase Ti <sub>8</sub> O <sub>15</sub> nanowires as conductive carbon-free materials for electrocatalysis. <b>2015</b> , 7, 2856-61		25
919	Use of TiO <sub>2</sub> nanotube arrays as the adsorbents for preconcentration of triazine herbicides in environmental water samples prior to determination using high performance liquid chromatography. <b>2015</b> , 7, 3277-3282		14
918	TiO <sub>2</sub> nanostructures for photoelectrochemical cells (PECs). <b>2015</b> , 40, 4936-4944		45
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916	One-dimensional nanostructures for flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 16382-16392	13	59
915	Synthesis and electrochemical properties of tube-like nitrogen-doped graphene/manganese oxide composite for supercapacitors. <b>2015</b> , 10, 282-286		2
914	Synthesis of mesoporous NiCo <sub>2</sub> O <sub>4</sub> @GO by a solvothermal method for charge storage applications. <b>2015</b> , 5, 66657-66666		102



913	In situ fabrication of porous festuca scoparia-like Ni <sub>0.3</sub> Co <sub>2.7</sub> O <sub>4</sub> nanostructures on Ni-foam: An efficient electrode material for supercapacitor applications. <b>2015</b> , 40, 12303-12314		38
912	Crumpled graphene: preparation and applications. <b>2015</b> , 5, 66767-66796		52
911	Covalently Coupled Ultrafine H-TiO <sub>2</sub> Nanocrystals/Nitrogen-Doped Graphene Hybrid Materials for High-Performance Supercapacitor. <b>2015</b> , 7, 17884-92		97
910	Surface reconstruction, oxygen vacancy distribution and photocatalytic activity of hydrogenated titanium oxide thin film. <b>2015</b> , 330, 177-186		52
909	Vertical Mode Gas Sensing Performance of TiO <sub>2</sub> Nanotube Array by Tuning of Surface Area and Carrier Transport Length. <b>2015</b> , 15, 5919-5926		21
908	Electrochemically conductive treatment of TiO <sub>2</sub> nanotube arrays in AlCl <sub>3</sub> aqueous solution for supercapacitors. <b>2015</b> , 294, 216-222		43
907	A facile interfacial assembling strategy for synthesizing yellow TiO <sub>2</sub> flakes with a narrowed bandgap. <b>2015</b> , 5, 58176-58183		8
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899	Intercalation of cations into partially reduced molybdenum oxide for high-rate pseudocapacitors. <b>2015</b> , 1, 1-8		80
898	Self-doped TiO <sub>2</sub> hierarchical hollow spheres with enhanced visible-light photocatalytic activity. <b>2015</b> , 640, 68-74		41
897	Effect of oil on the morphology and photocatalysis of emulsion electrospun titanium dioxide nanomaterials. <b>2015</b> , 499, 101-108		23
896	Carbon-coated Si/MnO <sub>2</sub> nanoneedle composites with optimum carbon layer activation for supercapacitor applications. <i>Chemical Engineering Journal</i> , <b>2015</b> , 273, 82-91	14.7	24

895	Stoichiometry, Length, and Wall Thickness Optimization of TiO <sub>2</sub> Nanotube Array for Efficient Alcohol Sensing. <b>2015</b> , 7, 9336-48		53
894	Hydrogenated TiO <sub>2</sub> Branches Coated Mn <sub>3</sub> O <sub>4</sub> Nanorods as an Advanced Anode Material for Lithium Ion Batteries. <b>2015</b> , 7, 10348-55		77
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892	Controllable synthesis and photocatalytic activity of Ag/BiOI based on the morphology effect of BiOI substrate. <b>2015</b> , 272, 213-220		37
891	Structural and electrochemical analysis of a novel co-electrodeposited Mn <sub>2</sub> O <sub>3</sub> -Au nanocomposite thin film. <b>2015</b> , 44, 9158-69		18
890	An approach towards TiO <sub>2</sub> chrysanthemum flowers with tunable properties: influence of reaction time in hydrothermal process. <b>2015</b> , 26, 6119-6128		7
889	Preparation of highly capacitive polyaniline/black TiO <sub>2</sub> nanotubes as supercapacitor electrode by hydrogenation and electrochemical deposition. <i>Electrochimica Acta</i> , <b>2015</b> , 166, 174-182	6.7	84
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887	An effective template-free synthesis strategy for hierarchical titanium oxide hybrids: tailoring the solvent environment. <b>2015</b> , 5, 41059-41065		7
886	Band edge engineering of TiO <sub>2</sub> @DNA nanohybrids and implications for capacitive energy storage devices. <b>2015</b> , 7, 10438-48		33
885	Bandgap engineering of oxygen-rich TiO <sub>2</sub> +x for photocatalyst with enhanced visible-light photocatalytic ability. <b>2015</b> , 50, 4324-4329		19
884	Integrating large specific surface area and high conductivity in hydrogenated NiCo <sub>2</sub> O <sub>4</sub> double-shell hollow spheres to improve supercapacitors. <b>2015</b> , 7, e165-e165		156
883	Enhancement of photoelectrochemical activity for water splitting by controlling hydrodynamic conditions on titanium anodization. <b>2015</b> , 286, 224-231		36
882	Capacitive and oxidant generating properties of black-colored TiO <sub>2</sub> nanotube array fabricated by electrochemical self-doping. <b>2015</b> , 7, 7486-91		74
881	Carbon clad TiO <sub>2</sub> nanotubes: fabrication and use in 3D-RuO <sub>2</sub> based supercapacitors. <b>2015</b> , 51, 7614-7		38
880	Cobalt sulfide nanosheets coated on NiCo <sub>2</sub> S <sub>4</sub> nanotube arrays as electrode materials for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 10492-10497	13	142
879	Synthesis of Z-scheme g-C <sub>3</sub> N <sub>4</sub> -Ti(3+)/TiO <sub>2</sub> material: an efficient visible light photoelectrocatalyst for degradation of phenol. <b>2015</b> , 17, 8877-84		50
878	One-dimensional cadmium hydroxide nanowires towards electrochemical supercapacitor. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 9124-9131	3.6	50

877	Synthesizing highly conductive cobalt sulfide hydrangea macrophylla using long carbon-chain sulfur source for supercapacitors. <b>2015</b> , 5, 83383-83390		14
876	Core-shell Co <sub>11</sub> (HPO <sub>3</sub> ) <sub>8</sub> (OH) <sub>6</sub> ·3H <sub>2</sub> O <sub>4</sub> hybrids for high-performance flexible all-solid-state asymmetric supercapacitors. <b>2015</b> , 651, 214-221		31
875	Solar-microbial hybrid device based on oxygen-deficient niobium pentoxide anodes for sustainable hydrogen production. <b>2015</b> , 6, 6799-6805		45
874	Core-shell MnO <sub>2</sub> @Fe <sub>2</sub> O <sub>3</sub> nanospindles as a positive electrode for aqueous supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 22066-22072	13	47
873	Al/C/MnO <sub>2</sub> sandwich nanowalls with highly porous surface for electrochemical energy storage. <b>2015</b> , 299, 408-416		27
872	A high performance redox-mediated electrolyte for improving properties of metal oxides based pseudocapacitive materials. <i>Electrochimica Acta</i> , <b>2015</b> , 186, 478-485	6.7	15
871	Fiber temperature sensor with nanostructured cladding by TiO <sub>2</sub> nanoparticles self-assembled onto a side polished optical fiber. <b>2015</b> ,		1
870	Effect of TiO <sub>2</sub> on Duck Eggshell Membrane as Separators in Supercapacitor Applications. <b>2015</b> , 827, 151-155		2
869	Characterization of modified SiC@SiO <sub>2</sub> nanocables/MnO <sub>2</sub> and their potential application as hybrid electrodes for supercapacitors. <b>2015</b> , 44, 19974-82		16
868	A new approach to prepare highly active and stable black titania for visible light-assisted hydrogen production. <b>2015</b> , 8, 3539-3544		274
867	Formation of Highly Conductive Boron-Doped Diamond on TiO <sub>2</sub> Nanotubes Composite for Supercapacitor or Energy Storage Devices. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, A2085-A2092	3.9	21
866	Crystalline/amorphous Ni/NiO core/shell nanosheets as highly active electrocatalysts for hydrogen evolution reaction. <b>2015</b> , 300, 336-343		189
865	Hybrid Energy Storage Devices Based on Monolithic Electrodes Containing Well-defined TiO <sub>2</sub> Nanotube Size Gradients. <i>Electrochimica Acta</i> , <b>2015</b> , 176, 1393-1402	6.7	21
864	Improving the Lithium-Storage Properties of Self-Grown Nickel Oxide: A Back-Up from TiO <sub>2</sub> Nanoparticles. <b>2015</b> , 2, 1243-1248		33
863	Synergistic effect between hydrodynamic conditions during Ti anodization and acidic treatment on the photoelectric properties of TiO <sub>2</sub> nanotubes. <b>2015</b> , 330, 434-441		10
862	A sandwich-structured porous MnO <sub>2</sub> /polyaniline/MnO <sub>2</sub> thin film for supercapacitor applications. <b>2015</b> , 638, 38-42		23
861	Black strontium titanate nanocrystals of enhanced solar absorption for photocatalysis. <b>2015</b> , 17, 7528-7534		35
860	Enhanced supercapacitor performances using C-doped porous TiO <sub>2</sub> electrodes. <i>Applied Surface Science</i> , <b>2015</b> , 356, 553-560	6.7	27

859	Three-Dimensional Crystalline/Amorphous Co/Co <sub>3</sub> O <sub>4</sub> Core/Shell Nanosheets as Efficient Electrocatalysts for the Hydrogen Evolution Reaction. <i>Nano Letters</i> , <b>2015</b> , 15, 6015-21	11.5	392
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856	Photoelectrochemical properties and the detection mechanism of Bi <sub>2</sub> WO <sub>6</sub> nanosheet modified TiO <sub>2</sub> nanotube arrays. <b>2015</b> , 44, 17784-94		15
855	"Black" TiO <sub>2</sub> Nanotubes Formed by High-Energy Proton Implantation Show Noble-Metal-co-Catalyst Free Photocatalytic H <sub>2</sub> -Evolution. <i>Nano Letters</i> , <b>2015</b> , 15, 6815-20	11.5	152
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853	Effect of hydrogenation on performance of TiO <sub>2</sub> (B) nanowire for lithium ion capacitors. <b>2015</b> , 60, 199-203		41
852	Chemically Lithiated TiO <sub>2</sub> Heterostructured Nanosheet Anode with Excellent Rate Capability and Long Cycle Life for High-Performance Lithium-Ion Batteries. <b>2015</b> , 7, 25991-6003		67
851	Supercapacitor electrode materials: nanostructures from 0 to 3 dimensions. <b>2015</b> , 8, 702-730		1739
850	Fe <sub>3</sub> O <sub>4</sub> /carbon coated silicon ternary hybrid composite as supercapacitor electrodes. <i>Applied Surface Science</i> , <b>2015</b> , 328, 222-228	6.7	34
849	Quantitative investigation on the effect of hydrogenation on the performance of MnO <sub>2</sub> /H-TiO <sub>2</sub> composite electrodes for supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 3785-3793	13	33
848	In situ co-deposition of nickel hexacyanoferrate nanocubes on the reduced graphene oxides for supercapacitors. <b>2015</b> , 84, 174-184		44
847	Ultrathin cerium orthovanadate nanobelts for high-performance flexible all-solid-state asymmetric supercapacitors. <b>2015</b> , 10, 338-43		15
846	Electrochemical synthesis of reduced graphene oxide/TiO <sub>2</sub> nanotubes/Ti for high-performance supercapacitors. <b>2015</b> , 21, 525-531		20
845	Innovative three-dimensional (3D) eco-TiO <sub>2</sub> photocatalysts for practical environmental and bio-medical applications. <b>2014</b> , 4, 6740		24
844	Carbon quantum dots/hydrogenated TiO <sub>2</sub> nanobelt heterostructures and their broad spectrum photocatalytic properties under UV, visible, and near-infrared irradiation. <b>2015</b> , 11, 419-427		352
843	Enhanced capacitance of composite TiO <sub>2</sub> nanotube/boron-doped diamond electrodes studied by impedance spectroscopy. <b>2015</b> , 7, 551-8		52
842	Flexible and all-solid-state supercapacitors with long-time stability constructed on PET/Au/polyaniline hybrid electrodes. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 617-623	13	39

841	How voltage dictates anodic TiO <sub>2</sub> formation. <b>2015</b> , 94, 32-35		9
840	Silicon carbide nanowires@Ni(OH) <sub>2</sub> core-shell structures on carbon fabric for supercapacitor electrodes with excellent rate capability. <b>2015</b> , 273, 479-485		69
839	MnO <sub>2</sub> @TiO <sub>2</sub> /C nanocomposite arrays for high-performance supercapacitor electrodes. <b>2015</b> , 584, 61-65		27
838	Charge storage performances of micro-supercapacitor predominated by two-dimensional (2D) crystal structure. <b>2016</b> , 27, 58-67		33
837	Progress in Black Titania: A New Material for Advanced Photocatalysis. <b>2016</b> , 6, 1600452		193
836	Photoelectrochemical detection performance and mechanism discussion of Bi <sub>2</sub> O <sub>3</sub> modified TiO <sub>2</sub> nanotube arrays. <b>2016</b> , 6, 61367-61377		12
835	Anodically grown functional oxide nanotubes and applications. <b>2016</b> , 6, 375-396		26
834	Memristive behaviour in poly-acrylic acid coated TiO nanotube arrays. <b>2016</b> , 27, 485208		19
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824	Ultra-thick graphene bulk supercapacitor electrodes for compact energy storage. <b>2016</b> , 9, 3135-3142		284

823	Surfactant-Free Assembly of Mesoporous Carbon Hollow Spheres with Large Tunable Pore Sizes. <b>2016</b> , 10, 4579-86	293
822	Electrodeposition of honeycomb-shaped NiCo <sub>2</sub> O <sub>4</sub> on carbon cloth as binder-free electrode for asymmetric electrochemical capacitor with high energy density. <b>2016</b> , 6, 37562-37573	24
821	Sn doped TiO <sub>2</sub> nanotube with oxygen vacancy for highly efficient visible light photocatalysis. <b>2016</b> , 679, 454-462	54
820	Self-ordered Nanotubular TiO <sub>2</sub> Multilayers for High-Performance Photocatalysts and Supercapacitors. <i>Electrochimica Acta</i> , <b>2016</b> , 203, 257-264	6.7 70
819	Gold nanorods coated by oxygen-deficient TiO <sub>2</sub> as an advanced photocatalyst for hydrogen evolution. <b>2016</b> , 6, 39144-39149	16
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816	Amine-enriched Graphene Quantum Dots for High-pseudocapacitance Supercapacitors. <i>Electrochimica Acta</i> , <b>2016</b> , 208, 260-266	6.7 46
815	Synthesis of mesoporous niobium nitride nanobelt arrays and their capacitive properties. <i>Applied Surface Science</i> , <b>2016</b> , 383, 57-63	6.7 45
814	One-to-One Correspondence Growth Mechanism of Gourd-like SiO <sub>x</sub> Nanotubes. <b>2016</b> , 16, 3081-3086	3
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812	Microwave synthesis: Characterization and electrochemical properties of amorphous activated carbon-MnO <sub>2</sub> nanocomposite electrodes. <b>2016</b> , 681, 293-300	28
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807	Ultrafine NiO Nanosheets Stabilized by TiO <sub>2</sub> from Monolayer NiTi-LDH Precursors: An Active Water Oxidation Electrocatalyst. <b>2016</b> , 138, 6517-24	452
806	Effect of doping level of colored TiO <sub>2</sub> nanotube arrays fabricated by electrochemical self-doping on electrochemical properties. <b>2016</b> , 18, 14370-5	40

805	Facile Synthesis of Co <sub>3</sub> O <sub>4</sub> /Nitrogen-Doped Graphene Composite with Enhanced Electrochemical Performance. <b>2016</b> , 847, 14-21		5
804	Controlled synthesis of nanotubes and nanowires decorated with TiO <sub>2</sub> nanocuboids with exposed highly reactive (111) facets to produce enhanced photoelectrochemical properties. <b>2016</b> , 6, 91370-91376		7
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800	Black mesoporous Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> nanowall arrays with improved rate performance as advanced 3D anodes for microbatteries. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 17543-17551	13	57
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790	All-Solid-State Cable-Type Supercapacitors with Ultrahigh Rate Capability. <b>2016</b> , 1, 1600012		31
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788	Carbon cloth/cobalt oxide integrated electrode as flexible cathode of alkaline batteries. <b>2016</b> , 31, 492-496		2



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786	Iron-Based Supercapacitor Electrodes: Advances and Challenges. <b>2016</b> , 6, 1601053		270
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781	Self-assembly of (NH <sub>4</sub> ) <sub>0.3</sub> TiO <sub>1.1</sub> F <sub>2.1</sub> crystal by dinitrogen fixation as a precursor of N-doped TiO <sub>2</sub> nanosheets. <b>2016</b> , 18, 1		3
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775	High-Performance Supercapacitor Electrode Based on Cobalt Oxide-Manganese Dioxide-Nickel Oxide Ternary 1D Hybrid Nanotubes. <b>2016</b> , 8, 20786-92		130
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770	Solid-state supercapacitors with rationally designed heterogeneous electrodes fabricated by large area spray processing for wearable energy storage applications. <b>2016</b> , 6, 25684		52



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760	Formation of oxygen vacancies and Ti(3+) state in TiO <sub>2</sub> thin film and enhanced optical properties by air plasma treatment. <b>2016</b> , 6, 32355		579
759	Influence of carbon atmosphere on surface morphology and photocatalytic activity of TiO <sub>2</sub> coatings by multi-heat treatment. <b>2016</b> , 27, 3873-3879		3
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745	Hierarchical three-dimensional MnO <sub>2</sub> /carbon@TiO <sub>2</sub> nanotube arrays for high-performance supercapacitors. <b>2016</b> , 6, 63642-63651	3
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742	Hydrogenated V <sub>2</sub> O <sub>5</sub> Nanosheets for Superior Lithium Storage Properties. <b>2016</b> , 26, 784-791	110
741	Scalable, Binderless, and Carbonless Hierarchical Ni Nanodendrite Foam Decorated with Hydrous Ruthenium Dioxide for 1.6 V Symmetric Supercapacitors. <b>2016</b> , 3, 1500503	20
740	High power density nitridated hematite (Fe <sub>2</sub> O <sub>3</sub> ) nanorods as anode for high-performance flexible lithium ion batteries. <b>2016</b> , 308, 7-17	163
739	External Water-Free Approach toward TiO <sub>2</sub> Nanoparticles Embedded in Biomass-Derived Nitrogen-Doped Carbon. <b>2016</b> , 4, 844-850	16
738	Porous silicon carbide flakes derived from waste silicon wafer for electrochemical supercapacitor. <i>Chemical Engineering Journal</i> , <b>2016</b> , 289, 170-179	14.7 25
737	Enhanced electrochemical performance of morphology-controlled titania-reduced graphene oxide nanostructures fabricated via a combined anodization-hydrothermal process. <b>2016</b> , 6, 12571-12583	16
736	Dramatically improved energy conversion and storage efficiencies by simultaneously enhancing charge transfer and creating active sites in MnO <sub>x</sub> /TiO <sub>2</sub> nanotube composite electrodes. <b>2016</b> , 20, 254-263	66
735	In-situ plasma hydrogenated TiO <sub>2</sub> thin films for enhanced photoelectrochemical properties. <b>2016</b> , 76, 284-291	27
734	Low-temperature fabrication of brown TiO <sub>2</sub> with enhanced photocatalytic activities under visible light. <b>2016</b> , 52, 2988-91	54

733	Probing the electrochemical capacitance of MXene nanosheets for high-performance pseudocapacitors. <b>2016</b> , 18, 4460-7	52
732	Supercapacitive performance of hydrogenated TiO <sub>2</sub> nanotube arrays decorated with nickel oxide nanoparticles. <b>2016</b> , 6, 12185-12192	15
731	Carbonization temperature dependence of pore structure of silicon carbide spheres and their electrochemical capacitive properties as supercapacitors. <b>2016</b> , 42, 3947-3958	8
730	Nickel catalyst stabilization via graphene encapsulation for enhanced methanation reaction. <b>2016</b> , 334, 42-51	68
729	Highly stable organic/inorganic junction composed of hydrogenated titania nanotubes infiltrated by a conducting polymer. <b>2016</b> , 6, 33101-33110	28
728	High-performance symmetric supercapacitor based on manganese oxyhydroxide nanosheets on carbon cloth as binder-free electrodes. <b>2016</b> , 311, 121-129	56
727	Coupled optical absorption, charge carrier separation, and surface electrochemistry in surface disordered/hydrogenated TiO <sub>2</sub> for enhanced PEC water splitting reaction. <b>2016</b> , 18, 8364-77	23
726	Partially amorphized MnMoO <sub>4</sub> for highly efficient energy storage and the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 3683-3688	13 64
725	Fabrication and characterization of composite TiO <sub>2</sub> nanotubes/boron-doped diamond electrodes towards enhanced supercapacitors. <b>2016</b> , 601, 35-40	28
724	Fabrication and characterization of ultra light SiC whiskers decorated by RuO <sub>2</sub> nanoparticles as hybrid supercapacitors. <b>2016</b> , 6, 19626-19631	4
723	In situ fabrication of highly crystalline CdS decorated Bi <sub>2</sub> S <sub>3</sub> nanowires (nano-heterostructure) for visible light photocatalyst application. <b>2016</b> , 6, 23508-23517	22
722	Layered-MnO <sub>2</sub> Nanosheet Grown on Nitrogen-Doped Graphene Template as a Composite Cathode for Flexible Solid-State Asymmetric Supercapacitor. <b>2016</b> , 8, 5251-60	168
721	Fluoride concentration controlled TiO <sub>2</sub> nanotubes: the interplay of microstructure and photocatalytic performance. <b>2016</b> , 6, 18333-18339	16
720	Hierarchical micro & mesoporous silicon carbide flakes for high-performance electrochemical capacitive energy storage. <b>2016</b> , 307, 715-723	21
719	Oxygen Vacancy-Induced Structural, Optical, and Enhanced Supercapacitive Performance of Zinc Oxide Anchored Graphitic Carbon Nanofiber Hybrid Electrodes. <b>2016</b> , 8, 5025-39	123
718	Fabrication of TiO <sub>2</sub> @MnO <sub>2</sub> nanotube arrays by pulsed electrodeposition and their application for high-performance supercapacitors. <i>Electrochimica Acta</i> , <b>2016</b> , 192, 259-267	6.7 50
717	Review on advances in porous nanostructured nickel oxides and their composite electrodes for high-performance supercapacitors. <b>2016</b> , 308, 121-140	177
716	Photochemical fabrication of 3D hierarchical Mn <sub>3</sub> O <sub>4</sub> /H-TiO <sub>2</sub> composite films with excellent electrochemical capacitance performance. <b>2016</b> , 18, 8529-36	12

7 <sup>15</sup>	Influence of surface oxygen functional group on the electrochemical behavior of porous silicon carbide based supercapacitor electrode. <i>Electrochimica Acta</i> , <b>2016</b> , 196, 357-368	6.7	38
7 <sup>14</sup>	Understanding the mechanism of hydrogenated NiCo <sub>2</sub> O <sub>4</sub> nanoglass supported on Ni foam for enhanced-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 5198-5204	13	56
7 <sup>13</sup>	Photochemical synthesis of SnO <sub>2</sub> /TiO <sub>2</sub> composite nanotube arrays with enhanced lithium storage performance. <b>2016</b> , 674, 1-8		23
7 <sup>12</sup>	Thorny TiO <sub>2</sub> nanofibers: Synthesis, enhanced photocatalytic activity and supercapacitance. <b>2016</b> , 659, 138-145		22
7 <sup>11</sup>	Integrated copper-nickel oxide mesoporous nanowire arrays for high energy density aqueous asymmetric supercapacitors. <b>2016</b> , 1, 150-155		83
7 <sup>10</sup>	Mesoporous TiO <sub>2</sub> and Co-doped TiO <sub>2</sub> Nanotubes/Reduced Graphene Oxide Composites as Electrodes for Supercapacitors. <i>Electrochimica Acta</i> , <b>2016</b> , 190, 104-117	6.7	62
7 <sup>09</sup>	Flexible all solid state supercapacitor with high energy density employing black titania nanoparticles as a conductive agent. <b>2016</b> , 8, 4054-62		48
7 <sup>08</sup>	Engineering disorder into exotic electronic 2D TiO <sub>2</sub> nanosheets for enhanced photocatalytic performance. <b>2016</b> , 6, 6133-6137		24
7 <sup>07</sup>	Synthesis, modification, and photo/photoelectrocatalytic degradation applications of TiO <sub>2</sub> nanotube arrays: a review. <b>2016</b> , 5,		95
7 <sup>06</sup>	Hierarchical sulfur-impregnated hydrogenated TiO <sub>2</sub> mesoporous spheres comprising anatase nanosheets with highly exposed (001) facets for advanced Li-S batteries. <b>2016</b> , 27, 045403		34
7 <sup>05</sup>	Novel Bi <sub>2</sub> MoO <sub>6</sub> /TiO <sub>2</sub> heterostructure microspheres for degradation of benzene series compound under visible light irradiation. <b>2016</b> , 463, 145-53		72
7 <sup>04</sup>	Fabrication of oxygen-deficient TiO <sub>2</sub> coatings with nano-fiber morphology for visible-light photocatalysis. <b>2016</b> , 41, 358-363		27
7 <sup>03</sup>	High-performance supercapacitors based on amorphous C-modified anodic TiO <sub>2</sub> nanotubes. <i>Applied Surface Science</i> , <b>2016</b> , 362, 399-405	6.7	28
7 <sup>02</sup>	Preparation and capacitance properties of Mn-doped TiO <sub>2</sub> nanotube arrays by anodisation of Ti/Mn alloy. <b>2016</b> , 658, 177-182		30
7 <sup>01</sup>	Anatase TiO <sub>2</sub> nanotube by electrochemical anodization method: effect of tubes dimension on the supercapacitor application. <b>2016</b> , 22, 99-105		15
7 <sup>00</sup>	A CdS/ZnSe/TiO <sub>2</sub> nanotube array and its visible light photocatalytic activities. <b>2016</b> , 462, 389-96		33
6 <sup>99</sup>	Porous One-Dimensional Nanomaterials: Design, Fabrication and Applications in Electrochemical Energy Storage. <b>2017</b> , 29, 1602300		435
6 <sup>98</sup>	Enhancing the Sensing Properties of TiO Nanosheets with Exposed {001} Facets by a Hydrogenation and Sensing Mechanism. <b>2017</b> , 56, 1504-1510		41

697	TiO <sub>2</sub> Nanowire Arrays on Titanium Substrate as a Novel Binder-free Negative Electrode for Asymmetric Supercapacitor. <i>Electrochimica Acta</i> , <b>2017</b> , 229, 197-207	6.7	42
696	Self-ordering dual-layered honeycomb nanotubular titania: Enhanced structural stability and energy storage capacity. <i>Applied Surface Science</i> , <b>2017</b> , 401, 127-141	6.7	6
695	A self-template synthesis of porous ZnCo <sub>2</sub> O <sub>4</sub> microspheres for high-performance quasi-solid-state asymmetric supercapacitors. <b>2017</b> , 7, 1038-1044		67
694	Electrochemical Reductive Doping and Interfacial Impedance of TiO <sub>2</sub> Nanotube Arrays in Aqueous and Aprotic Solvents. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, H91-H96	3.9	19
693	Enhancement of Electrochemical Performance by the Oxygen Vacancies in Hematite as Anode Material for Lithium-Ion Batteries. <b>2017</b> , 12, 13		27
692	Simulation of diffuse-charge capacitance in electric double layer capacitors. <b>2017</b> , 31, 1650431		1
691	Hybrid Material of PANI with TiO <sub>2</sub> -SnO <sub>2</sub> : Pseudocapacitor Electrode for Higher Performance Supercapacitors. <b>2017</b> , 2, 65-73		18
690	Investigation on IrO <sub>2</sub> supported on hydrogenated TiO <sub>2</sub> nanotube array as OER electro-catalyst for water electrolysis. <b>2017</b> , 42, 3572-3578		47
689	Synthesis and photocatalytic activity of mesoporous {001} facets TiO <sub>2</sub> single crystals. <i>Applied Surface Science</i> , <b>2017</b> , 403, 662-669	6.7	16
688	Synthesis, properties, and applications of black titanium dioxide nanomaterials. <b>2017</b> , 62, 431-441		92
687	Surface-Electronic-State-Modulated, Single-Crystalline (001) TiO Nanosheets for Sensitive Electrochemical Sensing of Heavy-Metal Ions. <b>2017</b> , 89, 3386-3394		79
686	Inactivation of E. coli using a novel TiO <sub>2</sub> nanotube electrode. <b>2017</b> , 3, 534-545		18
685	Fabrication of a snail shell-like structured MnO <sub>2</sub> @CoNiO <sub>2</sub> composite electrode for high performance supercapacitors. <b>2017</b> , 7, 12301-12308		25
684	Black TiO <sub>2</sub> for solar hydrogen conversion. <b>2017</b> , 3, 96-111		54
683	First-principles studies on facet-dependent photocatalytic properties of BiOI {001} surface. <b>2017</b> , 52, 5686-5695		15
682	A novel high-performance supercapacitor based on high-quality CeO <sub>2</sub> /nitrogen-doped reduced graphene oxide nanocomposite. <b>2017</b> , 123, 1		18
681	Electron trapping induced electrostatic adsorption of cations: a general factor leading to photoactivity decay of nanostructured TiO <sub>2</sub> . <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 6455-6464	13	25
680	Electrochemical Doping as a Way to Enhance Water Photooxidation on Nanostructured Nickel Titanate and Anatase Electrodes. <b>2017</b> , 4, 1429-1435		3

679	Transmission electron microscopy analysis of some transition metal compounds for energy storage and conversion. <b>2017</b> , 90, 62-79		8
678	Three-dimensional TiO <sub>2</sub> nanotube arrays combined with g-C <sub>3</sub> N <sub>4</sub> quantum dots for visible light-driven photocatalytic hydrogen production. <b>2017</b> , 7, 13223-13227		19
677	Defect states determined the performance of dopant-free anatase nanocrystals in solar fuel cells. <b>2017</b> , 144, 445-452		11
676	A Convenient Route for [email protected]BiO <sub>2</sub> Nanocatalyst Synthesis and Its Application for Room Temperature CO Oxidation. <b>2017</b> , 121, 4946-4957		8
675	The Synergistic Effect of Photoelectrochemical (PEC) Reactions Exemplified by Concurrent Perfluorooctanoic acid (PFOA) Degradation and Hydrogen Generation over Carbon and Nitrogen codoped TiO <sub>2</sub> Nanotube Arrays (C-N-TNTAs) photoelectrode. <b>2017</b> , 209, 437-446		50
674	High volumetric energy density annealed-MXene-nickel oxide/MXene asymmetric supercapacitor. <b>2017</b> , 7, 11000-11011		99
673	Template-free single pot synthesis of SnS <sub>2</sub> @Cu <sub>2</sub> O/reduced graphene oxide (rGO) nanoflowers for high performance supercapacitors. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 2702-2716	3.6	37
672	TiO <sub>2</sub> crystalline structure and electrochemical performance in two-ply yarn CNT/TiO <sub>2</sub> asymmetric supercapacitors. <b>2017</b> , 52, 7733-7743		18
671	A novel high energy hybrid Li-ion capacitor with a three-dimensional hierarchical ternary nanostructure of hydrogen-treated TiO <sub>2</sub> nanoparticles/conductive polymer/carbon nanotubes anode and an activated carbon cathode. <b>2017</b> , 355, 1-7		42
670	Characteristics and Electronic Properties of Self-Organized TiO <sub>2</sub> Nanotube Arrays Fabricated on Ti Foil by Square Wave Pulse Anodizing Ti in an HF + H <sub>2</sub> SO <sub>4</sub> Solution. <b>2017</b> , 6, P310-P322		2
669	Design and synthesis of H-TiO <sub>2</sub> /MnO <sub>2</sub> core-shell nanotube arrays with high capacitance and cycling stability for supercapacitors. <b>2017</b> , 52, 7744-7753		10
668	Effect of post-heat treatment on the photocatalytic activity of titanium dioxide nanowire membranes deposited on a Ti substrate. <b>2017</b> , 7, 21422-21429		6
667	Hydrothermal solid-gas route to TiO <sub>2</sub> nanoparticles/nanotube arrays for high-performance supercapacitors. <b>2017</b> , 357, 230-240		34
666	Tracking the Effect of Sodium Insertion/Extraction in Amorphous and Anatase TiO <sub>2</sub> Nanotubes. <b>2017</b> , 121, 11773-11782		19
665	Molybdenum-Tungsten Mixed Oxide Deposited into Titanium Dioxide Nanotube Arrays for Ultrahigh Rate Supercapacitors. <b>2017</b> , 9, 18699-18709		25
664	Boosting Supercapacitor Performance of TiO <sub>2</sub> Nanobelts by Efficient Nitrogen Doping. <b>2017</b> , 4, 2328-2335		9
663	Reduced {001}-TiO photocatalysts: noble-metal-free CO photoreduction for selective CH evolution. <b>2017</b> , 19, 13875-13881		42
662	Electrochemically designed interfaces: Electrical properties and morphology of micro-nanostructured Titania implant surfaces. <b>2017</b> , 324, 546-551		1

661	Photoelectrochemical Degradation of Organic Compounds Coupled with Molecular Hydrogen Generation Using Electrochromic TiO Nanotube Arrays. <b>2017</b> , 51, 6590-6598		88
660	Oxygen vacancies enhance pseudocapacitive charge storage properties of MoO. <b>2017</b> , 16, 454-460		1164
659	Black Titanium Dioxide for Photocatalysis. <b>2017</b> , 393-428		9
658	Highly Conductive Porous Transition Metal Dichalcogenides via Water Steam Etching for High-Performance Lithium-Sulfur Batteries. <b>2017</b> , 9, 18845-18855		41
657	Time-dependent evolution of the dichloromethane-mediated Bi <sub>2</sub> MoO <sub>6</sub> /BiOCl heterojunction for enhanced electrochemical performance. <b>2017</b> , 21, 2955-2964		6
656	Investigation on surface metal vacancy electrochemistry. <i>Electrochimica Acta</i> , <b>2017</b> , 244, 1-7	6.7	11
655	One-Step Synthesis of Highly Oxygen-Deficient Lithium Titanate Oxide with Conformal Amorphous Carbon Coating as Anode Material for Lithium Ion Batteries. <b>2017</b> , 4, 1700329		25
654	Fabrication of LiTiO-TiO Nanosheets with Structural Defects as High-Rate and Long-Life Anodes for Lithium-Ion Batteries. <b>2017</b> , 7, 2960		40
653	Vertically-aligned silicon carbide nanowires as visible-light-driven photocatalysts. <b>2017</b> , 218, 267-276		20
652	Nano-thickness dependence of supercapacitor performance of the ALD-fabricated two-dimensional WO <sub>3</sub> . <i>Electrochimica Acta</i> , <b>2017</b> , 246, 625-633	6.7	42
651	Breathable Carbon-Free Electrode: Black TiO <sub>2</sub> with Hierarchically Ordered Porous Structure for Stable LiO <sub>2</sub> Battery. <b>2017</b> , 7, 1700814		50
650	Synthesis of carbon modified TiO <sub>2</sub> nanotubes composite films by gas thermal penetration as symmetrical and binder-free electrochemical supercapacitor. <b>2017</b> , 721, 795-802		8
649	Formation and evolution of anodic TiO <sub>2</sub> nanotube embryos. <b>2017</b> , 4, 065008		5
648	Oxygen Vacancies Evoked Blue TiO <sub>2</sub> (B) Nanobelts with Efficiency Enhancement in Sodium Storage Behaviors. <b>2017</b> , 27, 1700856		165
647	Enhanced negative thermal expansion and optical absorption of In 0.6 (HfMg) 0.7 Mo 3 O 12 with oxygen vacancies. <b>2017</b> , 381, 2195-2199		7
646	Paper-Based Electrodes for Flexible Energy Storage Devices. <b>2017</b> , 4, 1700107		232
645	Facile Synthesis of Ultra-wide Two Dimensional Bi <sub>2</sub> S <sub>3</sub> Nanosheets: Characterizations, Properties and Applications in Hydrogen Peroxide Sensing and Hydrogen Storage. <b>2017</b> , 29, 2027-2035		12
644	Rationally Engineered Electrodes for a High-Performance Solid-State Cable-Type Supercapacitor. <b>2017</b> , 27, 1606696		18



643	Electrochemical properties of spray deposited nickel oxide (NiO) thin films for energy storage systems. <b>2017</b> , 125, 289-295	15
642	Synthesis and characterization of TiO <sub>2</sub> /polyaniline/graphene oxide bouquet-like composites for enhanced microwave absorption performance. <b>2017</b> , 710, 717-724	42
641	Photocatalysis with TiO <sub>2</sub> Nanotubes: Colorful Reactivity and Designing Site-Specific Photocatalytic Centers into TiO <sub>2</sub> Nanotubes. <b>2017</b> , 7, 3210-3235	180
640	Nanotubes. <b>2017</b> , 1-24	2
639	Functionalization of biomass carbonaceous aerogels and their application as electrode materials for electro-enhanced recovery of metal ions. <b>2017</b> , 4, 1114-1123	46
638	Ultrathin N-doped carbon-coated TiO <sub>2</sub> coaxial nanofibers as anodes for lithium ion batteries. <b>2017</b> , 100, 2939-2947	11
637	Electrodeposition of polyaniline in long TiO <sub>2</sub> nanotube arrays for high-area capacitance supercapacitor electrodes. <b>2017</b> , 21, 2349-2354	12
636	In situ Sn-doped WO <sub>3</sub> films with enhanced photoelectrochemical performance for reducing CO <sub>2</sub> into formic acid. <b>2017</b> , 21, 2231-2240	25
635	Bacterial-cellulose-derived interconnected meso-microporous carbon nanofiber networks as binder-free electrodes for high-performance supercapacitors. <b>2017</b> , 352, 34-41	88
634	Transition metal oxides with one-dimensional/one-dimensional-analogue nanostructures for advanced supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 8155-8186	13 317
633	Oxygen defective metal oxides for energy conversion and storage. <b>2017</b> , 13, 23-39	204
632	The preparation and characterization of electrochemical reduced TiO <sub>2</sub> nanotubes/polypyrrole as supercapacitor electrode material. <b>2017</b> , 21, 2177-2184	12
631	One-Step Synthesis of Co <sub>3</sub> O <sub>4</sub> /Graphene Aerogels and Their All-Solid-State Asymmetric Supercapacitor. <b>2017</b> , 2017, 1143-1152	24
630	Highly Reversible and Durable Na Storage in Niobium Pentoxide through Optimizing Structure, Composition, and Nanoarchitecture. <b>2017</b> , 29, 1605607	97
629	Fluorine-Induced Superhydrophilic Ti Foam with Surface Nanocavities for Effective Oil-in-Water Emulsion Separation. <b>2017</b> , 56, 699-707	26
628	3D architectures of titania nanotubes and graphene with efficient nanosynergy for supercapacitors. <b>2017</b> , 117, 203-212	36
627	Surface Localization of Defects in Black TiO: Enhancing Photoactivity or Reactivity. <b>2017</b> , 8, 199-207	79
626	Black Magic in Gray Titania: Noble-Metal-Free Photocatalytic H <sub>2</sub> Evolution from Hydrogenated Anatase. <b>2017</b> , 10, 62-67	47



625	Rapid synthesis of rGO conjugated hierarchical NiCoO hollow mesoporous nanospheres with enhanced glucose sensitivity. <b>2017</b> , 28, 025501		26
624	Simple but Effective Way To Enhance Photoelectrochemical Solar-Water-Splitting Performance of ZnO Nanorod Arrays: Charge-Trapping Zn(OH) Annihilation and Oxygen Vacancy Generation by Vacuum Annealing. <b>2017</b> , 9, 2317-2325		84
623	Electrodes consisting of PEDOT modified by Prussian Blue analogues deposited onto titania nanotubes [their highly improved capacitance. <b>2017</b> , 302, 197-201		18
622	Improving the activity of CoxP nanoparticles for the electrochemical hydrogen evolution by hydrogenation. <b>2017</b> , 1, 62-68		38
621	Highly conductive and flexible molybdenum oxide nanopaper for high volumetric supercapacitor electrode. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 2897-2903	13	80
620	Facile Synthesis and Characterization of Novel 3-D Flower-like TiO2/MnO2 Hierarchical Architectures. <b>2017</b> , 46, 342-344		1
619	Embedded Ag quantum dots into interconnected Co3O4 nanosheets grown on 3D graphene networks for high stable and flexible supercapacitors. <i>Electrochimica Acta</i> , <b>2017</b> , 224, 260-268	6.7	74
618	Spaced TiO2 nanotube arrays allow for a high performance hierarchical supercapacitor structure. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 1895-1901	13	52
617	Enlarged capacitance of TiO2 nanotube array electrodes treated by water soaking. <b>2017</b> , 52, 3146-3152		12
616	AgInS2 nanoparticles modified TiO2 nanotube array electrodes: Ultrasonic-assisted SILAR preparation and mechanism of enhanced photoelectrocatalytic activity. <b>2017</b> , 442, 97-106		14
615	Flexible electrode materials based on WO3 nanotube bundles for high performance energy storage devices. <b>2017</b> , 42, 143-150		163
614	Exploring the mechanism of a pure and amorphous black-blue TiO2:H thin film as a photoanode in water splitting. <b>2017</b> , 42, 151-156		27
613	High-energy, flexible micro-supercapacitors by one-step laser fabrication of a self-generated nanoporous metal/oxide electrode. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 24585-24593	13	58
612	Improved Electrocatalytic Performance of Core-shell NiCo/NiCoO with amorphous FeOOH for Oxygen-evolution Reaction. <i>Electrochimica Acta</i> , <b>2017</b> , 257, 1-8	6.7	39
611	Enhanced electrochemical performances of anatase TiO2 nanotubes by synergetic doping of Ni and N for sodium-ion batteries. <i>Electrochimica Acta</i> , <b>2017</b> , 254, 130-139	6.7	46
610	Oxygen Vacancies Dominated NiS /CoS Interface Porous Nanowires for Portable Zn-Air Batteries Driven Water Splitting Devices. <b>2017</b> , 29, 1704681		400
609	Effect of fine layer structure on electrochemistry properties. <b>2017</b> , 804, 185-191		3
608	Phase Transition of TiO2 Nanotubes: An X-ray Study as a Function of Temperature. <b>2017</b> , 121, 24871-24876		5

607	N-doped carbon-coated TiN exhibiting excellent electrochemical performance for supercapacitors. <i>Electrochimica Acta</i> , <b>2017</b> , 257, 56-63	6.7	32
606	Improved electrochemical properties of morphology-controlled titania/titanate nanostructures prepared by in-situ hydrothermal surface modification of self-source Ti substrate for high-performance supercapacitors. <b>2017</b> , 7, 13227		34
605	Two dimensional oxygen-vacancy-rich CoO nanosheets with excellent supercapacitor performances. <b>2017</b> , 53, 12410-12413		128
604	Photoreduction synthesis of silver on Bi <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> nanocomposites and their catalytic activity for the degradation of methyl orange. <b>2017</b> , 28, 18307-18321		22
603	Positive role of oxygen vacancy in electrochemical performance of CoMn <sub>2</sub> O <sub>4</sub> cathodes for Li-O <sub>2</sub> batteries. <b>2017</b> , 365, 134-147		62
602	Asymmetric capacitors based on TiO <sub>2</sub> and mesoporous MnO <sub>2</sub> electrodes using neutral aqueous electrolyte. <b>2017</b> , 19, 1		7
601	Substrate-integrated core-shell Co <sub>3</sub> O <sub>4</sub> @Au@CuO hybrid nanowires as efficient cathode materials for high-performance asymmetric supercapacitors with excellent cycle life. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 21715-21725	13	54
600	Annealing-Free Synthesis of K-doped Mixed-Phase TiO <sub>2</sub> Nanofibers on Ti Foil for Electrochemical Supercapacitor. <i>Electrochimica Acta</i> , <b>2017</b> , 253, 563-571	6.7	21
599	TiO <sub>2</sub> nanotube arrays treated with (NH <sub>4</sub> ) <sub>2</sub> TiF <sub>6</sub> dilute solution for better supercapacitive performances. <i>Electrochimica Acta</i> , <b>2017</b> , 253, 455-462	6.7	9
598	Importance of microstructure and interface in designing metal oxide nanocomposites for supercapacitor electrodes. <b>2017</b> , 803, 30-39		12
597	Recent progress in layered double hydroxide based materials for electrochemical capacitors: design, synthesis and performance. <b>2017</b> , 9, 15206-15225		107
596	Study of counter electrodes as an effective controlling factor of crystal orientation of TiO <sub>2</sub> nanoarrays used as the anode in lithium-ion batteries. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 12442-12450	3.6	5
595	On the Development of Hierarchical Nanostructures of Graphene-Zinc antimonate as Inexpensive Electrode Materials for Supercapacitors. <i>Electrochimica Acta</i> , <b>2017</b> , 253, 178-189	6.7	6
594	Semimetallic core-shell TiO <sub>2</sub> nanotubes as a high conductivity scaffold and use in efficient 3D-RuO <sub>2</sub> supercapacitors. <i>Materials Today Energy</i> , <b>2017</b> , 6, 46-52	7	31
593	Reduced graphene oxide/Titanium oxide nanocomposite synthesis via microwave-assisted method and supercapacitor behaviors. <b>2017</b> , 728, 541-551		22
592	Recent advances in chemical methods for activating carbon and metal oxide based electrodes for supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 17151-17173	13	110
591	Recent Advances in Designing and Fabricating Self-Supported Nanoelectrodes for Supercapacitors. <b>2017</b> , 4, 1700188		122
590	Preparation and characterization of a novel Ce doped PbO <sub>2</sub> electrode based on NiO modified Ti/TiO <sub>2</sub> NTs substrate for the electrocatalytic degradation of phenol wastewater. <i>Electrochimica Acta</i> , <b>2017</b> , 247, 535-547	6.7	57

589	Construction of NiO/MnO <sub>2</sub> /CeO <sub>2</sub> hybrid nanoflake arrays as platform for electrochemical energy storage. <b>2017</b> , 361, 310-317		24
588	Preparation of S-doped TiO <sub>2</sub> -three dimensional graphene aerogels as a highly efficient photocatalyst. <b>2017</b> , 231, 51-57		27
587	TiO Feather Duster as Effective Polysulfides Restrictor for Enhanced Electrochemical Kinetics in Lithium-Sulfur Batteries. <b>2017</b> , 13, 1701013		126
586	Highly flexible solid-state supercapacitor based on graphene/polypyrrole hydrogel. <b>2017</b> , 362, 184-191		71
585	Single-layer graphene/titanium oxide cubic nanorods array/FTO heterojunction for sensitive ultraviolet light detection. <i>Applied Surface Science</i> , <b>2017</b> , 426, 391-398	6.7	12
584	Activation of a Nickel-Based Oxygen Evolution Reaction Catalyst on a Hematite Photoanode via Incorporation of Cerium for Photoelectrochemical Water Oxidation. <b>2017</b> , 9, 30654-30661		46
583	Nitrogen and oxygen co-doped 3D nanoporous duct-like graphene@carbon nano-cage hybrid films for high-performance multi-style supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 18535-18541 <sup>13</sup>		18
582	Characterization and optical properties of TeO <sub>2</sub> /ZnO nanocomposites synthesized in a narrow temperature range. <b>2017</b> , 4, 085018		1
581	Role of Cl Ion Desorption in Photocurrent Enhancement of the Annealed Rutile Single-Crystalline TiO <sub>2</sub> Nanorod Arrays. <b>2017</b> , 121, 18892-18899		12
580	Design and Synthesis of Hierarchical SiO <sub>2</sub> @C/TiO Hollow Spheres for High-Performance Supercapacitors. <b>2017</b> , 9, 29982-29991		67
579	Template-free synthesis of nitrogen doped carbon materials from an organic ionic dye (murexide) for supercapacitor application. <b>2017</b> , 7, 54626-54637		11
578	Fabrication of Polyaniline/Self-Doped TiO <sub>2</sub> Nanotubes Hybrids as Supercapacitor Electrode by Microwave-Assisted Chemical Reduction and Electrochemical Deposition. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, D901-D907	3.9	5
577	Nanostructured materials: A progressive assessment and future direction for energy device applications. <b>2017</b> , 353, 113-141		29
576	Electrochemical hydrogenated TiO <sub>2</sub> nanotube arrays decorated with 3D cotton-like porous MnO <sub>2</sub> enables superior supercapacitive performance. <b>2017</b> , 7, 31512-31518		5
575	TiO <sub>2</sub> nanoparticles-functionalized two-dimensional WO <sub>3</sub> for high-performance supercapacitors developed by facile two-step ALD process. <b>2017</b> , 12, 55-62		19
574	Optical anisotropy in vertically oriented TiO nanotube arrays. <b>2017</b> , 28, 374001		9
573	Fabrication of highly homogeneous Al-doped TiO <sub>2</sub> nanotubes by nanolamination of atomic layer deposition. <b>2017</b> , 100, 4988-4993		13
572	Preparation and capacitance properties of Al-doped hierarchical TiO <sub>2</sub> nanostructure by oxidation of Ti8Al alloy. <b>2017</b> , 28, 13770-13779		1

571	Boric acid assisted synthesis of WO <sub>3</sub> nanostructures with highly reactive (002) facet and enhanced photoelectrocatalytic activity. <b>2017</b> , 28, 13836-13845		12
570	Design and synthesis of porous TiO <sub>2</sub> @C nanotube bundles with enhanced supercapacitive performance. <b>2017</b> , 43, 2876-2880		12
569	Remarkable supercapacitive performance of TiO <sub>2</sub> nanotube arrays by introduction of oxygen vacancies. <i>Chemical Engineering Journal</i> , <b>2017</b> , 313, 1071-1081	14.7	39
568	Nitrogen and carbon co-doped Ni-TiO <sub>2</sub> spindles for high performance electrochemical capacitor electrodes. <i>Applied Surface Science</i> , <b>2017</b> , 396, 774-779	6.7	18
567	Electro-oxidation of phenol over electrodeposited MnOx nanostructures and the role of a TiO <sub>2</sub> nanotubes interlayer. <b>2017</b> , 203, 270-281		48
566	Flexible all-solid-state supercapacitors based on polyaniline orderly nanotubes array. <b>2017</b> , 9, 193-200		92
565	N-Substituted poly(3,6-dithienylcarbazole) derivatives: a new class of redox-active electrode materials for high-performance flexible solid-state pseudocapacitors. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 609-618	13	14
564	A facile one-step synthesis of Mn <sub>3</sub> O <sub>4</sub> nanoparticles-decorated TiO <sub>2</sub> nanotube arrays as high performance electrode for supercapacitors. <b>2017</b> , 246, 269-277		19
563	Developing a facile method to construct 3D hierarchical CoMoO <sub>4</sub> @C@MnO <sub>2</sub> core-shell structure aligned on Ni foam with enhanced pseudocapacitive performances. <b>2017</b> , 695, 2109-2116		19
562	Synthesis of TiO <sub>2</sub> &SiO <sub>2</sub> nanoparticles as efficient UV absorbers and their application on wool. <b>2017</b> , 87, 1784-1792		13
561	Gentle way to build reduced titanium dioxide nanodots integrated with graphite-like carbon spheres: From DFT calculation to experimental measurement. <b>2017</b> , 204, 283-295		35
560	Hydrogenated TiO <sub>2</sub> /ZnO heterojunction nanorod arrays with enhanced performance for photoelectrochemical water splitting. <b>2017</b> , 42, 3938-3946		58
559	Supercapacitive performance of homogeneous Co <sub>3</sub> O <sub>4</sub> /TiO <sub>2</sub> nanotube arrays enhanced by carbon layer and oxygen vacancies. <b>2017</b> , 21, 1069-1078		14
558	Hydrogen and nitrogen codoping of anatase TiO for efficiency enhancement in organic solar cells. <b>2017</b> , 7, 17839		18
557	Research of the TiO <sub>2</sub> nanotubes formation by AC-DC electrochemical anodizing. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 857, 012048	0.3	
556	Micro fiber with cladding of titanium dioxide (TiO <sub>2</sub> ) nanoparticles and its violet light sensing. <b>2017</b> , 7, 264		12
555	Synthesis and Catalytic Applications of Non-Metal Doped Mesoporous Titania. <b>2017</b> , 5, 15		50
554	. <b>2017</b> ,		1

553	Efficient Conversion of CO <sub>2</sub> to Methane Photocatalyzed by Conductive Black Titania. <b>2017</b> , 9, 4389-4396		34
552	Enhancement of water splitting by controlling the amount of vacancies with varying vacuum level in the synthesis system of SnO <sub>2</sub> -x/In <sub>2</sub> O <sub>3</sub> -y heterostructure as photocatalyst. <b>2018</b> , 47, 18-25		24
551	Niobium Oxyhydroxide-Polyoxometalate Composite as an Efficient Proton-Conducting Solid Electrolyte. <b>2018</b> , 5, 1125-1129		12
550	Effect of heat treatment on surface hydrophilicity-retaining ability of titanium dioxide nanotubes. <i>Applied Surface Science</i> , <b>2018</b> , 440, 440-447	6.7	23
549	Photo-assisted synthesis of coaxial-structured polypyrrole/electrochemically hydrogenated TiO nanotube arrays as a high performance supercapacitor electrode.. <b>2018</b> , 8, 13393-13400		7
548	Preparation and properties of MnO <sub>2</sub> @TiO <sub>2</sub> nanotube array composite electrodes using titanium foam as the current collector. <b>2018</b> , 43, 8859-8867		16
547	Robust and Conductive Red MoSe for Stable and Fast Lithium Storage. <b>2018</b> , 12, 4010-4018		42
546	Tunability of photo-catalytic selectivity of B-doped anatase TiO <sub>2</sub> microspheres in the visible light. <b>2018</b> , 156, 213-218		14
545	Hierarchically-structured Co <sub>3</sub> O <sub>4</sub> nanowire arrays grown on carbon nanotube fibers as novel cathodes for high-performance wearable fiber-shaped asymmetric supercapacitors. <i>Applied Surface Science</i> , <b>2018</b> , 447, 795-801	6.7	30
544	Pine-Needle-Like Cu-Co Skeleton Compositied with Li Ti O Forming Core-Branch Arrays for High-Rate Lithium Ion Storage. <b>2018</b> , 14, e1704339		36
543	Surface modification of titania nanotube arrays with crystalline manganese-oxide nanostructures and fabrication of hybrid electrochemical electrode for high-performance supercapacitors. <b>2018</b> , 62, 409-417		12
542	S-doped carbon@TiO <sub>2</sub> to store Li <sup>+</sup> /Na <sup>+</sup> with high capacity and long life-time. <b>2018</b> , 13, 215-222		41
541	Hydrogenated TiO nanotube photonic crystals for enhanced photoelectrochemical water splitting. <b>2018</b> , 29, 155401		8
540	Plasma-Induced Oxygen Vacancies in Urchin-Like Anatase Titania Coated by Carbon for Excellent Sodium-Ion Battery Anodes. <b>2018</b> , 10, 7031-7042		85
539	Tunable Synthesis of Colorful Nitrogen-Doped Titanium Oxide and Its Application in Energy Storage. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 876-882	6.1	16
538	Ultrahigh photosensitivity and detectivity of hydrogen-treated TiO <sub>2</sub> nanorod array/SiO <sub>2</sub> /Si heterojunction broadband photodetectors and its mechanism. <b>2018</b> , 6, 2319-2328		14
537	Enhanced capacitance of TiO <sub>2</sub> nanotubes topped with nanograss by H <sub>3</sub> PO <sub>4</sub> soaking and hydrogenation doping. <i>Electrochimica Acta</i> , <b>2018</b> , 266, 233-241	6.7	24
536	One-step synthesis of Fe <sub>2</sub> O <sub>3</sub> @TiO <sub>2</sub> as promising anode materials for high performance lithium-ion batteries. <b>2018</b> , 5, 025502		7

535	Scalable Synthesis of Triple-Core-Shell Nanostructures of TiO <sub>2</sub> @MnO <sub>2</sub> @C for High Performance Supercapacitors Using Structure-Guided Combustion Waves. <b>2018</b> , 14, e1703755	40
534	Hydrogenation and Structuration of TiO <sub>2</sub> Nanorod Photoanodes: Doping Level and the Effect of Illumination in Trap-States Filling. <b>2018</b> , 122, 3295-3304	14
533	Electrochemical hydrogenation of mixed-phase TiO <sub>2</sub> nanotube arrays enables remarkably enhanced photoelectrochemical water splitting performance. <b>2018</b> , 63, 194-202	16
532	Evolution of nanomechanical properties and crystallinity of individual titanium dioxide nanotube resonators. <b>2018</b> , 29, 085702	6
531	NiCo composite metal embedded porous N-doped carbon for an effective binder-free supercapacitor electrode. <b>2018</b> , 33, 1167-1178	6
530	Scalable preparation of defect-rich free-standing TiO <sub>2</sub> sheets with visible-light photocatalytic activity. <b>2018</b> , 226, 337-345	22
529	Hierarchical double-shelled poly(3,4-ethylenedioxythiophene) and MnO <sub>2</sub> decorated Ni nanotube arrays for durable and enhanced energy storage in supercapacitors. <i>Electrochimica Acta</i> , <b>2018</b> , 264, 46-52 <sup>6.7</sup>	50
528	Oxygen-Vacancy Abundant Ultrafine CoO/Graphene Composites for High-Rate Supercapacitor Electrodes. <b>2018</b> , 5, 1700659	274
527	Free-Standing, Binder-Free Titania/Super-Aligned Carbon Nanotube Anodes for Flexible and Fast-Charging Li-Ion Batteries. <b>2018</b> , 6, 3426-3433	22
526	Highly selective non-enzymatic electrochemical sensor based on a titanium dioxide nanowire-poly(3-aminophenyl boronic acid)-gold nanoparticle ternary nanocomposite.. <b>2018</b> , 8, 2138-2147	25
525	Highly Active Black TiO <sub>2</sub> /N-doped Graphene Quantum Dots Nanocomposites For Sunlight Driven Photocatalytic Sewage Treatment. <b>2018</b> , 3, 201-206	9
524	Black TiO <sub>2</sub> with stable surface oxygen vacancies as the support of efficient gold catalysts for water-gas shift reaction. <b>2018</b> , 8, 1277-1287	36
523	Hydrothermal syntheses of tungsten doped TiO <sub>2</sub> and TiO <sub>2</sub> /WO <sub>3</sub> composite using metal oxide precursors for charge storage applications. <b>2018</b> , 740, 703-710	47
522	Enhanced Photocatalytic Performance of Carbon-Coated TiO <sub>2</sub> with Surface-Active Carbon Species. <b>2018</b> , 122, 10948-10955	14
521	Surface confined titania redox couple for ultrafast energy storage. <b>2018</b> , 5, 691-698	14
520	Adjusting the ratio of bulk single-electron-trapped oxygen vacancies/surface oxygen vacancies in TiO <sub>2</sub> for efficient photocatalytic hydrogen evolution. <b>2018</b> , 8, 2809-2817	37
519	Facile synthesis of Cu <sub>1.96</sub> S nanoparticles for enhanced energy density in flexible all-solid-state asymmetric supercapacitors. <b>2018</b> , 29, 11187-11198	9
518	Interfacial Engineered Polyaniline/Sulfur-Doped TiO <sub>2</sub> Nanotube Arrays for Ultralong Cycle Lifetime Fiber-Shaped, Solid-State Supercapacitors. <b>2018</b> , 10, 18390-18399	38



517	Fabrication of IrO <sub>2</sub> decorated vertical aligned self-doped TiO <sub>2</sub> nanotube arrays for oxygen evolution in water electrolysis. <b>2018</b> , 43, 9133-9143		20
516	Efficient synthesis of perovskite-type oxide photocathode by nonhydrolytic sol-gel method with an enhanced photoelectrochemical activity. <b>2018</b> , 750, 248-257		10
515	Efficient silver modification of TiO <sub>2</sub> nanotubes with enhanced photocatalytic activity. <b>2018</b> , 80, 116-122		9
514	Hydrogenated TiO <sub>2</sub> nanosheet based flowerlike architectures: Enhanced sensing performances and sensing mechanism. <b>2018</b> , 749, 543-555		11
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512	O-Vacancy-enriched NiO hexagonal platelets fabricated on Ni foam as a self-supported electrode for extraordinary pseudocapacitance. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 7099-7106	13	49
511	Dependence of Exposed Facet of Pd on Photocatalytic H <sub>2</sub> -Production Activity. <b>2018</b> , 6, 6478-6487		34
510	Oxygen vacancies on the surface of HxWO <sub>3</sub> for enhanced charge storage. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 6780-6784	13	29
509	TiO <sub>2</sub> nanotube-based smart 3D electrodes by anodic oxidation of additively manufactured Ti6Al4V structures. <b>2018</b> , 15, 165-170		2
508	Band-gap narrowing and electrochemical properties in N-doped and reduced anodic TiO <sub>2</sub> nanotube arrays. <i>Electrochimica Acta</i> , <b>2018</b> , 270, 245-255	6.7	65
507	Few layer graphene wrapped mixed phase TiO <sub>2</sub> nanofiber as a potential electrode material for high performance supercapacitor applications. <i>Applied Surface Science</i> , <b>2018</b> , 444, 414-422	6.7	19
506	Self-supported one-dimensional materials for enhanced electrochromism. <b>2018</b> , 3, 261-292		40
505	Alkali Metal Chlorides Based Hydrogel as Eco-Friendly Neutral Electrolyte for Bendable Solid-State Capacitor. <b>2018</b> , 5, 1701648		18
504	Facile microwave assisted synthesis of N-rich carbon quantum dots/dual-phase TiO <sub>2</sub> heterostructured nanocomposites with high activity in CO <sub>2</sub> photoreduction. <b>2018</b> , 231, 269-276		80
503	CTAB-Aided Synthesis of Stacked V <sub>2</sub> O <sub>5</sub> Nanosheets: Morphology, Electrochemical Features and Asymmetric Device Performance. <b>2018</b> , 17, 1760009		5
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501	The roles of surface oxygen vacancy over Mg <sub>4</sub> Ta <sub>2</sub> O <sub>9-x</sub> photocatalyst in enhancing visible-light photocatalytic hydrogen evolution performance. <b>2018</b> , 103, 29-33		5
500	Boosted electrochemistry properties of Cu <sub>4</sub> [(OH) <sub>0.29</sub> Cl <sub>0.71</sub> ](OH) <sub>6</sub> hexagonal prisms by 3D-cage atomic configuration of (100) facet. <i>Applied Surface Science</i> , <b>2018</b> , 428, 586-592	6.7	13

499	Hydrogen incorporation by plasma treatment gives mesoporous black TiO <sub>2</sub> thin films with visible photoelectrochemical water oxidation activity. <b>2018</b> , 261, 35-43		21
498	New Insights into the Operating Voltage of Aqueous Supercapacitors. <b>2018</b> , 24, 3639-3649		154
497	Effect of annealing ambience on the formation of surface/bulk oxygen vacancies in TiO <sub>2</sub> for photocatalytic hydrogen evolution. <i>Applied Surface Science</i> , <b>2018</b> , 428, 640-647	6.7	72
496	Hydrogenated TiO <sub>2</sub> @reduced graphene oxide sandwich-like nanosheets for high voltage supercapacitor applications. <b>2018</b> , 126, 135-144		45
495	Tubular TiO <sub>2</sub> Nanostructures: Toward Safer Microsupercapacitors. <b>2018</b> , 3, 1700194		8
494	Carbon//TiO <sub>2</sub> composites as high-performance supercapacitor electrodes: synergistic effect between carbon and metal oxide phases. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 633-644	13	63
493	Template-Assisted Electrospinning of Bubbled Carbon Nanofibers as Binder-Free Electrodes for High-Performance Supercapacitors. <b>2018</b> , 5, 531-539		25
492	Hierarchical Ag/TiO <sub>2</sub> /Si Forest-Like Nano/Micro-Architectures as Antireflective, Plasmonic Photocatalytic, and Self-Cleaning Coatings. <b>2018</b> , 6, 1580-1591		30
491	Promoting the interfacial H <sub>2</sub> -evolution reaction of metallic Ag by Ag <sub>2</sub> S cocatalyst: A case study of TiO <sub>2</sub> /Ag-Ag <sub>2</sub> S photocatalyst. <b>2018</b> , 225, 415-423		127
490	A highly ordered multi-layered hydrogenated TiO <sub>2</sub> -II phase nanowire array negative electrode for 2.4 V aqueous asymmetric supercapacitors with high energy density and long cycle life. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 623-632	13	48
489	Recent Smart Methods for Achieving High-Energy Asymmetric Supercapacitors. <b>2018</b> , 2, 1700230		122
488	Constructing superhydrophobic WO <sub>3</sub> @TiO <sub>2</sub> nanoflake surface beyond amorphous alloy against electrochemical corrosion on iron steel. <i>Applied Surface Science</i> , <b>2018</b> , 436, 527-535	6.7	30
487	Carbon nanotubes: A potential material for energy conversion and storage. <b>2018</b> , 64, 219-253		129
486	Pyrrole-regulated precipitation of titania nanorods on polymer fabrics for photocatalytic degradation of trace toluene in air. <i>Applied Surface Science</i> , <b>2018</b> , 434, 1055-1063	6.7	8
485	Insight into capacitive performance of polyaniline/graphene oxide composites with ecofriendly binder. <i>Applied Surface Science</i> , <b>2018</b> , 435, 91-101	6.7	28
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483	Electrochemical performance evaluation of tin oxide nanorod-embedded woven carbon fiber composite supercapacitor. <b>2018</b> , 42, 490-498		16
482	Annealing Induced Oxygen Defects on Green Sonochemically Synthesized ZnO Nanoparticles for Photoelectrochemical Water Splitting. <b>2018</b> , 3, 11914-11921		9



481	Photocatalytic oxidation of nitrogen oxides over {001}TiO: the influence of F ions. <b>2018</b> , 25, 35342-35351		6
480	Confined formation of monoclinic Na <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> nanoparticles embedded into porous CNTs: towards enhanced electrochemical performances for sodium ion batteries. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 19340-19343	3.6	11
479	fabrication of a direct -scheme photocatalyst by immobilizing CdS quantum dots in the channels of graphene-hybridized and supported mesoporous titanium nanocrystals for high photocatalytic performance under visible light.. <b>2018</b> , 8, 42233-42245		64
478	The electrochemical effect of Al-doping on Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> as anode material for lithium-ion batteries. <i>Materials Today: Proceedings</i> , <b>2018</b> , 5, 10592-10601	1.4	16
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475	Silicon Nanowires Passivated by TiO <sub>2</sub> Layer for Supercapacitors in Aqueous Electrolyte. <b>2018</b> ,		
474	Atomic Substitution Enabled Synthesis of Vacancy-Rich Two-Dimensional Black TiO Nanoflakes for High-Performance Rechargeable Magnesium Batteries. <b>2018</b> , 12, 12492-12502		85
473	Review of Water-Assisted Crystallization for TiO Nanotubes. <b>2018</b> , 10, 77		24
472	Atomic-Thick TiO(B) Nanosheets Decorated with Ultrafine CoO Nanocrystals As a Highly Efficient Catalyst for Lithium-Oxygen Battery. <b>2018</b> , 10, 41398-41406		26
471	A brief review on plasma for synthesis and processing of electrode materials. <b>2018</b> , 3, 28-47		30
470	NbO Nanoparticles Anchored on an N-Doped Graphene Hybrid Anode for a Sodium-Ion Capacitor with High Energy Density. <i>ACS Omega</i> , <b>2018</b> , 3, 15943-15951	3.9	16
469	Oxygen Defect Modulated Titanium Niobium Oxide on Graphene Arrays: An Open-Door for High-Performance 1.4 V Symmetric Supercapacitor in Acidic Aqueous Electrolyte. <b>2018</b> , 28, 1805618		86
468	Mixed-valent Co <sub>x</sub> O <sub>3</sub> /Ag/carbon nanofibers as binder-free and conductive-free electrode materials for high supercapacitor. <b>2018</b> , 29, 19382-19392		7
467	Electrochemically Treated TiO <sub>2</sub> for Enhanced Performance in Aqueous Al-Ion Batteries. <i>Materials</i> , <b>2018</b> , 11,	3.5	7
466	Synthesis and Characterization of MoS <sub>2</sub> /TiO <sub>2</sub> Nanocomposites for Enhanced Photocatalytic Degradation of Methylene Blue under Sunlight Irradiation. <b>2018</b> , 778, 137-143		3
465	Cr <sub>2</sub> O <sub>3</sub> nanoparticles: a fascinating electrode material combining both surface-controlled and diffusion-limited redox reactions for aqueous supercapacitors. <b>2018</b> , 53, 16458-16465		10
464	Eye-readable gasochromic and electrical detectability of hydrogenated Pd-TiO <sub>2</sub> to gaseous fluorine species. <i>Applied Surface Science</i> , <b>2018</b> , 462, 791-798	6.7	3

463	An overview: Facet-dependent metal oxide semiconductor gas sensors. <b>2018</b> , 277, 604-633		168
462	The prevention of Burning during the hard anodization in formamide for ultrafast growth of highly ordered arrays of TiO <sub>2</sub> nanotubes. <i>Electrochimica Acta</i> , <b>2018</b> , 289, 248-253	6.7	1
461	Design and Mechanisms of Asymmetric Supercapacitors. <b>2018</b> , 118, 9233-9280		1396
460	TiH Hydride Formed on Amorphous Black Titania: Unprecedented Active Species for Photocatalytic Hydrogen Evolution. <b>2018</b> , 8, 9711-9721		26
459	A novel MnO <sub>2</sub> /Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene nanocomposite as high performance electrode materials for flexible supercapacitors. <i>Electrochimica Acta</i> , <b>2018</b> , 290, 695-703	6.7	100
458	Electrochemical Synthesis of Nanostructured Metal-Doped Titanates and Investigation of Their Activity as Oxygen Evolution Photoanodes. <i>ACS Applied Energy Materials</i> , <b>2018</b> ,	6.1	3
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454	Reduced graphene oxide bridged, TiO <sub>2</sub> modified and Mn <sub>3</sub> O <sub>4</sub> intercalated Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> sandwich-like nanocomposite as a high performance anode for enhanced lithium storage applications. <b>2018</b> , 762, 643-652		13
453	A flexible rechargeable quasi-solid-state NiFe battery based on surface engineering exhibits high energy and long durability. <b>2018</b> , 5, 1805-1815		13
452	Synthesis of Au-V <sub>2</sub> O <sub>5</sub> composite nanowires through the shape transformation of a vanadium(III) metal complex for high-performance solid-state supercapacitors. <b>2018</b> , 5, 1836-1843		18
451	Modification of Carbon-Based Electroactive Materials for Supercapacitor Applications. <b>2018</b> , 393-413		1
450	Hierarchical porous titanium terephthalate based material with highly active sites for deep oxidative desulfurization. <b>2018</b> , 270, 241-247		13
449	The effect of Reynolds number on TiO <sub>2</sub> nanospheres doped with Li <sup>+</sup> cations. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 11054-11063	3.6	5
448	Recent developments in photoelectrochemical water-splitting using WO <sub>3</sub> /BiVO <sub>4</sub> heterojunction photoanode: A review. <b>2018</b> , 1, 49-62		47
447	Synergistic effect of Ti(OBu) <sub>4</sub> and annealing regime on the structure, morphology and photoelectrochemical response of Fe <sub>2</sub> O <sub>3</sub> photoanode. <i>Electrochimica Acta</i> , <b>2018</b> , 281, 246-256	6.7	8
446	Efficient utilization of oxygen-vacancies-enabled NiCo <sub>2</sub> O <sub>4</sub> electrode for high-performance asymmetric supercapacitor. <i>Electrochimica Acta</i> , <b>2018</b> , 279, 269-278	6.7	35

445	Reagentless Detection of Low-Molecular-Weight Triamterene Using Self-Doped TiO Nanotubes. <b>2018</b> , 90, 7651-7658		14
444	A high-performance supercapacitor based on N-doped TiO <sub>2</sub> nanoparticles. <b>2018</b> , 29, 14596-14604		16
443	Oxygen-deficient tungsten oxide nanorods with high crystallinity: Promising stable anode for asymmetric supercapacitors. <i>Electrochimica Acta</i> , <b>2018</b> , 283, 639-645	6.7	20
442	Fabrication of novel hydrophobic SiC/SiO <sub>2</sub> bead-string like core-shell nanochains via a facile catalyst/template-free thermal chemical vapor deposition process. <b>2018</b> , 217, 111-116		8
441	Review Advent of TiO <sub>2</sub> Nanotubes as Supercapacitor Electrode. <i>Journal of the Electrochemical Society</i> , <b>2018</b> , 165, E345-E358	3.9	30
440	Electrochemical oxidation of 4-chlorophenol for wastewater treatment using highly active UV treated TiO nanotubes. <b>2018</b> , 209, 182-190		17
439	Capacitive performance of vertically aligned reduced titania nanotubes coated with MnO by reverse pulse electrodeposition.. <b>2018</b> , 8, 23040-23047		5
438	Enhancement of Capacitive Performance in Titania Nanotubes Modified by an Electrochemical Reduction Method. <b>2018</b> , 2018, 1-9		11
437	A review on metal nitrides/oxy nitrides as an emerging supercapacitor electrode beyond oxide. <b>2018</b> , 35, 1389-1408		86
436	Oxygen vacancies confined in SnO <sub>2</sub> nanoparticles for glorious photocatalytic activities from the UV, visible to near-infrared region. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 15253-15262	3.6	19
435	Flexible supercapacitor electrodes based on TiO <sub>2</sub> /rGO/TiO <sub>2</sub> sandwich type hybrids. <b>2018</b> , 44, 4132-4141		20
434	Surface phosphation of 3D mesoporous NiCoO nanowire arrays as bifunctional anodes for lithium and sodium ion batteries.. <b>2018</b> , 8, 26888-26896		3
433	Effects of hydrogenated TiO nanotube arrays on protein adsorption and compatibility with osteoblast-like cells. <b>2018</b> , 13, 2037-2049		22
432	A high-performance TiO <sub>2</sub> nanotube supercapacitor by tuning heating rate during H <sub>2</sub> thermal annealing. <b>2018</b> , 29, 15130-15137		2
431	Preparation of ternary phase Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> /anatase/rutile nanocomposites with defects and their enhanced capability for lithium ion storage. <b>2018</b> , 769, 463-470		6
430	In-situ hydrothermal growth of Zn <sub>4</sub> Si <sub>2</sub> O <sub>7</sub> (OH) <sub>2</sub> ·H <sub>2</sub> O anchored on 3D N, S-enriched carbon derived from plant biomass for flexible solid-state asymmetrical supercapacitors. <i>Chemical Engineering Journal</i> , <b>2018</b> , 352, 519-529	14.7	115
429	Hydrogen-Etched TiO <sub>2</sub> as Efficient Support of Gold Catalysts for Water-Gas Shift Reaction. <b>2018</b> , 8, 26		14
428	Disordered Bilayered V <sub>2</sub> O <sub>5</sub> · nH <sub>2</sub> O Shells Deposited on Vertically Aligned Carbon Nanofiber Arrays as Stable High-Capacity Sodium Ion Battery Cathodes ? . <b>2018</b> , 6, 2438-2449		6

427	Crystallization of TiO <sub>2</sub> Nanotubes by In Situ Heating TEM. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	13
426	Strengthening of photovoltaic and supercapacitive properties of graphene oxide-polyaniline composite by dispersion of $\gamma$ -Al <sub>2</sub> O <sub>3</sub> nanoparticles. <b>2018</b> , 706, 647-651		6
425	Influence of plasma functionalization treatment and gold nanoparticles on surface chemistry and wettability of reactive-sputtered TiO <sub>2</sub> thin films. <i>Applied Surface Science</i> , <b>2018</b> , 458, 678-685	6.7	16
424	Pulsed photoinitiated fabrication of inkjet printed titanium dioxide/reduced graphene oxide nanocomposite thin films. <b>2018</b> , 29, 315401		8
423	Titania nanotubes modified by a pyrolyzed metal-organic framework with zero valent iron centers as a photoanode with enhanced photoelectrochemical, photocatalytical activity and high capacitance. <i>Electrochimica Acta</i> , <b>2018</b> , 278, 13-24	6.7	6
422	Three-dimensional hot electron photovoltaic device with vertically aligned TiO nanotubes. <b>2018</b> , 8, 7330		22
421	Fast charge separation and photocurrent enhancement on black TiO <sub>2</sub> nanotubes co-sensitized with Au nanoparticles and PbS quantum dots. <i>Electrochimica Acta</i> , <b>2018</b> , 277, 244-254	6.7	16
420	Defect generation in TiO nanotube anodes via heat treatment in various atmospheres for lithium-ion batteries. <b>2018</b> , 20, 22537-22546		21
419	Facile method for synthesis of FeCo(OH) <sub>2</sub> and their supercapacitor properties. <b>2018</b> , 35, 220-230		1
418	Core-shell structured titanium dioxide nanomaterials for solar energy utilization. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 8203-8237	58.5	180
417	Self-oxidized sponge-like nanoporous nickel alloy in three-dimensions with pseudocapacitive behavior and excellent capacitive performance. <b>2018</b> , 399, 192-198		14
416	Titania nanotubes dispersed graphitic carbon nitride nanosheets as efficient electrode materials for supercapacitors. <b>2018</b> , 29, 16598-16608		11
415	Design of oxygen-deficient NiMoO <sub>4</sub> nanoflake and nanorod arrays with enhanced supercapacitive performance. <i>Chemical Engineering Journal</i> , <b>2018</b> , 354, 182-190	14.7	62
414	Hydrothermally grown 3D hierarchical TiO <sub>2</sub> based on electrochemically anodized 1D TiO <sub>2</sub> nanostructure for supercapacitor. <b>2018</b> , 124, 1		15
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412	Lithium Ferrites@Polydopamine Core-Shell Nanoparticles as a New Robust Negative Electrode for Advanced Asymmetric Supercapacitors. <b>2018</b> , 35, 1800128		6
411	MoO <sub>3</sub> -deposited TiO <sub>2</sub> nanotubes for stable and high-capacitance supercapacitor electrodes.. <b>2018</b> , 8, 21823-21828		23
410	Structural and electrochemical studies of Scheelite type BiVO <sub>4</sub> nanoparticles: synthesis by simple hydrothermal method. <b>2018</b> , 29, 13265-13276		27

409	Superhydrophilic and underwater superoleophobic Ti foam with fluorinated hierarchical flower-like TiO <sub>2</sub> nanostructures for effective oil-in-water emulsion separation. <i>Applied Surface Science</i> , <b>2018</b> , 456, 114-123	6.7	31
408	Betavoltaic Enhancement Using Defect-Engineered TiO Nanotube Arrays through Electrochemical Reduction in Organic Electrolytes. <b>2018</b> , 10, 22174-22181		20
407	Defect-induced betavoltaic enhancement in black titania nanotube arrays. <b>2018</b> , 10, 13028-13036		14
406	TiO <sub>2</sub> Nanoparticles Modified MoO <sub>3</sub> Nanobelts as Electrode Materials with Superior Performances for Supercapacitors. <b>2018</b> , 6, 2367-2373		19
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403	Black Anatase TiO <sub>2</sub> Nanotubes with Tunable Orientation for High Performance Supercapacitors. <b>2019</b> , 123, 21931-21940		20
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401	Understanding the phase dependent energy storage performance of MnO <sub>2</sub> nanostructures. <b>2019</b> , 126, 045112		7
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399	Ethanol-quenching modified the surface environment of titanium dioxide for visible light-assisted hydrogen production. <b>2019</b> , 9, 4222-4225		1
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393	Ultrahigh capacitance of TiO <sub>2</sub> nanotube arrays/C/MnO <sub>2</sub> electrode for supercapacitor. <b>2019</b> , 805, 396-403		15
392	Mixed solvent exfoliated transition metal oxides nanosheets based flexible solid state supercapacitor devices endowed with high energy density. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 12385-12395		23

391	Supersensitive Photoelectrochemical Aptasensor Based on Br,N-Codoped TiO Sensitized by Quantum Dots. <b>2019</b> , 91, 10864-10869		34
390	Progress Report on Atomic Layer Deposition Toward Hybrid Nanocomposite Electrodes for Next Generation Supercapacitors. <b>2019</b> , 6, 1900678		10
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377	Anionic Dopant Delocalization through p-Band Modulation to Endow Metal Oxides with Enhanced Visible-Light Photoactivity. <b>2019</b> , 58, 16660-16667		13
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371	Defect-Assisted Broad-Band Photosensitivity with High Responsivity in Au/Self-Seeded TiO NR/Au-Based Back-to-Back Schottky Junctions. <i>ACS Omega</i> , <b>2019</b> , 4, 1364-1374	3.9	6
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368	High-Performance Asymmetric Electrochromic-Supercapacitor Device Based on Poly(indole-6-carboxylic acid)/TiO Nanocomposites. <b>2019</b> , 11, 6491-6501		67
367	Recent advances in perovskite oxides for anion-intercalation supercapacitor: A review. <b>2019</b> , 94, 35-50		107
366	Growth of polyaniline on TiO <sub>2</sub> tetragonal prism arrays as electrode materials for supercapacitor. <i>Electrochimica Acta</i> , <b>2019</b> , 300, 373-379	6.7	21
365	Formation and electrochemical properties of petal-like architectures derived from titanium alloy oxide nanotubes for supercapacitors. <b>2019</b> , 785, 19-24		5
364	Supercapacitive performance of C-axis preferentially oriented TiO <sub>2</sub> nanotube arrays decorated with MnO <sub>2</sub> nanoparticles. <b>2019</b> , 1, 1		1
363	Investigation on Different Electrochemical Behaviors of Four-Layered Bismuth Oxyhalogens. <b>2019</b> , 7, 1900460		1
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361	Carbon dots decorated three-dimensionally ordered macroporous bismuth-doped titanium dioxide with efficient charge separation for high performance photocatalysis. <b>2019</b> , 553, 758-767		28
360	A 3D ordered hierarchically porous non-carbon electrode for highly effective and efficient capacitive deionization. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 15633-15639	13	30
359	Electrochemically Doped and Hydrogen Peroxide-Treated TiO <sub>2</sub> Nanotube Arrays as an Electrode for Supercapacitor with Excellent Cycling Stability. <i>Journal of the Electrochemical Society</i> , <b>2019</b> , 166, A1944-A1949	3.9	13
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357	Oxygen vacancy-engineered FeO nanoarrays as free-standing electrodes for flexible asymmetric supercapacitors. <b>2019</b> , 11, 12477-12483		40
356	Highly Uniform MnCo <sub>2</sub> O <sub>4</sub> Hollow Spheres-Based All-Solid-State Asymmetric Micro-Supercapacitor via a Simple Metal-Glycerate Precursor Approach. <b>2019</b> , 7, 1900314		15



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353	Surface-Engineered Black Niobium Oxide@Graphene Nanosheets for High-Performance Sodium-/Potassium-Ion Full Batteries. <b>2019</b> , 15, e1901272	54
352	Proton-assisted creation of controllable volumetric oxygen vacancies in ultrathin CeO <sub>2</sub> for pseudocapacitive energy storage applications. <b>2019</b> , 10, 2594	40
351	Nitrided TiO <sub>2</sub> nanoparticles/nanotube arrays for better electrochemical properties. <b>2019</b> , 730, 340-344	9
350	Dismutation of Titanium Sub-oxide into TiO and TiO <sub>2</sub> with Structural Hierarchy Assisted by Ammonium Halides. <b>2019</b> , 25, 10642-10649	2
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348	One-Dimensional Nanostructured Pseudocapacitive Materials: Design, Synthesis and Applications in Supercapacitors. <b>2019</b> , 2, 820-841	63
347	A Ternary PEDOT-TiO <sub>2</sub> -Reduced Graphene Oxide Nanocomposite for Supercapacitor Applications. <b>2019</b> , 27, 867-875	5
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332	Supercapacitive performance of TiO boosted by a unique porous TiO/Ti network and activated Ti.. <b>2019</b> , 9, 7811-7817		11
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329	Fabrication of Ti <sup>3+</sup> doped TiO <sub>2</sub> coated Mn <sub>3</sub> O <sub>4</sub> nanorods with voids and channels for lithium storage. <i>Chemical Engineering Journal</i> , <b>2019</b> , 370, 1425-1433	14.7	24
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325	Enhanced micro-supercapacitors in aqueous electrolyte based on Si nanowires coated with TiO <sub>2</sub> . <b>2019</b> , 30, 8763-8770		3
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323	Facile synthesis of TiO <sub>2</sub> /rGO neatly electrodeposited on carbon fiber applied as ternary electrode for supercapacitor. <b>2019</b> , 6, 065040		3
322	Disordered surface formation of WS <sub>2</sub> via hydrogen plasma with enhanced anode performances for lithium and sodium ion batteries. <b>2019</b> , 3, 865-874		13
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313	Boosting the cycling stability of transition metal compounds-based supercapacitors. <b>2019</b> , 16, 545-573		288
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311	Exploring the photoelectrocatalytic behavior of free-standing TiO <sub>2</sub> nanotube arrays on transparent conductive oxide electrodes: Irradiation direction vs. alignment direction. <b>2019</b> , 335, 319-325		1
310	N-Doped Hierarchical Porous Carbon with Open-Ended Structure for High-Performance Supercapacitors. <b>2019</b> , 6, 1696-1703		18
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307	PPy-encapsulated SnS <sub>2</sub> Nanosheets Stabilized by Defects on a TiO <sub>2</sub> Support as a Durable Anode Material for Lithium-Ion Batteries. <b>2019</b> , 131, 821-825		18
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304	Plasma Hydrogenated TiO <sub>2</sub> /Nickel Foam as an Efficient Bifunctional Electrocatalyst for Overall Water Splitting. <b>2019</b> , 7, 885-894		27
303	Engineering hydrogenated manganese dioxide nanostructures for high-performance supercapacitors. <b>2019</b> , 537, 661-670		7
302	Bio-molecule templated hydrothermal synthesis of ZnWO <sub>4</sub> nanomaterial for high-performance supercapacitor electrode application. <b>2019</b> , 1181, 131-141		21

301	Free Exciton Absorptions and Quasi-reversible Redox Actions in Polypyrrole/Polyaniline/Zinc Oxide Nanocomposites as Electron Transporting Layer for Organic Light Emitting Diode and Electrode Material for Supercapacitors. <b>2019</b> , 29, 730-744		12
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289	Aggregation-induced emissions in columnar wedge-shaped pyridinium-based ionic liquid crystals. <b>2020</b> , 173, 107913		5
288	Hierarchical Mn O Anchored on 3D Graphene Aerogels via C-O-Mn Linkage with Superior Electrochemical Performance for Flexible Asymmetric Supercapacitor. <b>2020</b> , 26, 9314-9318		11
287	B-doping-induced amorphization of LDH for large-current-density hydrogen evolution reaction. <b>2020</b> , 261, 118240		96
286	Electrochemically self-doped WO <sub>3</sub> /TiO <sub>2</sub> nanotubes for photocatalytic degradation of volatile organic compounds. <b>2020</b> , 260, 118205		92
285	Unconventional Route to Oxygen-Vacancy-Enabled Highly Efficient Electron Extraction and Transport in Perovskite Solar Cells. <b>2020</b> , 59, 1611-1618		60
284	Unconventional Route to Oxygen-Vacancy-Enabled Highly Efficient Electron Extraction and Transport in Perovskite Solar Cells. <b>2020</b> , 132, 1628-1635		28

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281	Phase transformation of spinel Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> to anatase TiO <sub>2</sub> by catalytic delithiation. <b>2020</b> , 25, 510-519		3
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275	Fabrication of Hollow CoP/TiO Heterostructures for Enhanced Oxygen Evolution Reaction. <b>2020</b> , 16, e1905075		67
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269	Homogeneous MnO <sub>2</sub> @TiO <sub>2</sub> core-shell nanostructure for high performance supercapacitor and Li-ion battery applications. <b>2020</b> , 856, 113669		13
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258	Green Synthesized Palladium Coated Titanium Nanotube Arrays for Simultaneous Azo-Dye Degradation and Hydrogen Production. <b>2020</b> , 10, 1330		3
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224	Quantitative assessment of basal-, edge- and defect-surfaces of carbonaceous materials and their influence on electric double-layer capacitance. <b>2020</b> , 457, 228022		14
223	Effect of polyethylene glycol on crystal growth and photocatalytic activity of anatase TiO single crystals.. <b>2020</b> , 10, 12511-12518		6
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217	Vacancies and edges: Enhancing supercapacitive performance metrics of electrode materials. <i>Journal of Energy Storage</i> , <b>2020</b> , 31, 101614	7.8	9
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214	Electrospun TiO <sub>2</sub> nanofiber electrodes for high performance supercapacitors. <b>2020</b> , 7, 015098		4
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207	Improved analytical framework for quantifying field emission from nanostructures. <b>2020</b> , 245, 122686		4
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185	AgPO decorated black urchin-like defective TiO for rapid and long-term bacteria-killing under visible light. <b>2021</b> , 6, 1575-1587		50
184	Trace amounts of palladium-doped hollow TiO <sub>2</sub> nanosphere as highly efficient electrocatalyst for hydrogen evolution reaction. <b>2021</b> , 46, 1923-1933		6
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169	Heterojunction interfacial promotion of fast and prolonged alkali-ion storage of urchin-like Nb <sub>2</sub> O <sub>5</sub> @C nanospheres. <i>Journal of Materials Chemistry A</i> ,	13	3
168	Effectiveness of undoped and (Nd, Yb)-doped PbTe nanoparticles deposition on supercapacitor performance of TiO <sub>2</sub> nanotube arrays. <b>2021</b> , 284, 128948		0
167	Visible light-induced antibacterial and osteogenic cell proliferation properties of hydrogenated TiO nanotubes/Ti foil composite. <b>2021</b> , 32, 195101		1
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165	High Charge-Storage Performance of Morphologically Modified Anatase TiO <sub>2</sub> : Experimental and Theoretical Insight. <b>2021</b> , 15,		1
164	Effects of chloride and other anions on electrochemical chlorine evolution over self-doped TiO <sub>2</sub> nanotube array. <b>2021</b> , 38, 756-762		
163	Structure and dynamics of water in TiO <sub>2</sub> nano slits: The influence of interfacial interactions and pore sizes. <b>2021</b> , 31, 67-74		
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161	Ion beam engineered hydrogen titanate nanotubes for superior energy storage application. <i>Electrochimica Acta</i> , <b>2021</b> , 371, 137774	6.7	9
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159	Performance analysis, challenges and future perspectives of nickel based nanostructured electrodes for electrochemical supercapacitors. <b>2021</b> , 11, 564-599		23
158	Engineering electrode/electrolyte interfacial properties of nanotube arrays for high-capacitance supercapacitors. <b>2021</b> , 32, 11119-11128		0

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155	Surface electrochemistry of truncated Cu <sub>2</sub> O octahedrons. <b>2021</b> , 263, 124415		0
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