

Lithium Insertion in Nanostructured TiO₂

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Mesoporous TiO ₂ â€“B microflowers composed of (1 1 ₁ , 0) facet-exposed nanosheets for fast reversible lithium-ion storage. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12028.	5.2	60
2	Improvement of capacity and cycling performance of spinel LiMn ₂ O ₄ cathode materials with TiO ₂ -B nanobelts. <i>Electrochimica Acta</i> , 2013, 111, 691-697.	2.6	16
3	Ionic-Liquid-Assisted Synthesis of Self-Assembled TiO ₂ -B Nanosheets under Microwave Irradiation and Their Enhanced Lithium Storage Properties. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 5320-5328.	1.0	28
4	Synthesis of Nanoparticles-Deposited Double-Walled TiO ₂ -B Nanotubes with Enhanced Performance for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 22199-22208.	4.0	36
5	TiO ₂ â€“B Nanosheets/Anatase Nanocrystals Coâ€“Anchored on Nanoporous Graphene: In Situ Reductionâ€“Hydrolysis Synthesis and Their Superior Rate Performance as an Anode Material. <i>Chemistry - A European Journal</i> , 2014, 20, 1383-1388.	1.7	53
7	Water on Titanium Dioxide Surface: A Revisiting by Reactive Molecular Dynamics Simulations. <i>Langmuir</i> , 2014, 30, 14832-14840.	1.6	64
8	Study of the insertion mechanism of lithium into anatase by operando X-ray diffraction and absorption spectroscopy. <i>Solid State Ionics</i> , 2014, 268, 252-255.	1.3	18
9	From Spherical Mesopores to Worm-Shaped Mesopores: Morphology Transition in Titania-Polystyrene-b-poly(ethylene oxide) Composite Films with Increasing Sol-Gel Reaction Time. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 836-844.	1.0	5
10	Titania Nanotubes by Electrochemical Anodization for Solar Energy Conversion. <i>Journal of the Electrochemical Society</i> , 2014, 161, D3066-D3077.	1.3	31
11	Electrospun silicon/carbon/titanium oxide composite nanofibers for lithium ion batteries. <i>Journal of Power Sources</i> , 2014, 258, 39-45.	4.0	47
12	Capacitive contribution to Li-storage in TiO ₂ (B) and TiO ₂ (anatase). <i>Journal of Power Sources</i> , 2014, 246, 103-109.	4.0	86
13	Pseudocapacitive oxide materials for high-rate electrochemical energy storage. <i>Energy and Environmental Science</i> , 2014, 7, 1597.	15.6	4,223
14	Titanium Oxide Nanosheets: Graphene Analogues with Versatile Functionalities. <i>Chemical Reviews</i> , 2014, 114, 9455-9486.	23.0	557
15	Electrochemical Kinetics of Nanostructured Nb ₂ O ₅ Electrodes. <i>Journal of the Electrochemical Society</i> , 2014, 161, A718-A725.	1.3	235
16	Multishelled TiO ₂ Hollow Microspheres as Anodes with Superior Reversible Capacity for Lithium Ion Batteries. <i>Nano Letters</i> , 2014, 14, 6679-6684.	4.5	406
17	Hierarchical TiO ₂ -B nanowire@Î±-Fe ₂ O ₃ nanothorn core-branch arrays as superior electrodes for lithium-ion microbatteries. <i>Nano Research</i> , 2014, 7, 1797-1808.	5.8	97
18	Waterâ€“Free Titaniaâ€“Bronze Thin Films with Superfast Lithiumâ€“Ion Transport. <i>Advanced Materials</i> , 2014, 26, 7365-7370.	11.1	31
19	Flexible free-standing hydrogen-treated titanium dioxide nanowire arrays as a high performance anode for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15746-15751.	5.2	24

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20	A carbon-coated TiO ₂ (B) nanosheet composite for lithium ion batteries. <i>Chemical Communications</i> , 2014, 50, 5506.	2.2	45
21	Introduction of "lattice-voids"™ in high tap density TiO ₂ -B nanowires for enhanced high-rate and high volumetric capacity lithium storage. <i>RSC Advances</i> , 2014, 4, 22989-22994.	1.7	8
22	Mesocrystals as electrode materials for lithium-ion batteries. <i>Nano Today</i> , 2014, 9, 499-524.	6.2	120
23	Improved Lithium Ion Behavior Properties of TiO ₂ @Graphitic-like Carbon Core@Shell Nanostructure. <i>Electrochimica Acta</i> , 2014, 147, 241-249.	2.6	28
24	Low temperature Hydrogen Reduction of High Surface Area Anatase and Anatase/TiO ₂ for High-Charging-Rate Batteries. <i>ChemSusChem</i> , 2014, 7, 2584-2589.	3.6	24
25	Graphene nanoscrolls encapsulated TiO ₂ (B) nanowires for lithium storage. <i>Journal of Power Sources</i> , 2014, 268, 372-378.	4.0	65
26	Chemically Bonded TiO ₂ -Bronze Nanosheet/Reduced Graphene Oxide Hybrid for High-Power Lithium Ion Batteries. <i>ACS Nano</i> , 2014, 8, 1491-1499.	7.3	274
27	In Situ Quantification and Visualization of Lithium Transport with Neutrons. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9498-9502.	7.2	69
28	Surface decoration with MnO ₂ nanoplatelets on graphene/TiO ₂ (B) hybrids for rechargeable lithium-ion batteries. <i>Applied Surface Science</i> , 2014, 313, 877-882.	3.1	28
29	Tuning TiO ₂ nanoparticle morphology in graphene-TiO ₂ hybrids by graphene surface modification. <i>Nanoscale</i> , 2014, 6, 6710-6719.	2.8	60
30	Lithium insertion into TiO ₂ (anatase): electrochemistry, Raman spectroscopy, and isotope labeling. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 2297-2306.	1.2	51
31	Mechanisms in the solution growth of free-standing two-dimensional inorganic nanomaterials. <i>Nanoscale</i> , 2014, 6, 6398.	2.8	57
32	An experimental and computational study to understand the lithium storage mechanism in molybdenum disulfide. <i>Nanoscale</i> , 2014, 6, 10243-10254.	2.8	103
33	Mechanical Force-Driven Growth of Elongated Bending TiO ₂ -based Nanotubular Materials for Ultrafast Rechargeable Lithium Ion Batteries. <i>Advanced Materials</i> , 2014, 26, 6111-6118.	11.1	386
34	Titanium dioxide/titanium nitride nanowires on carbon cloth with remarkable rate capability for flexible lithium-ion batteries. <i>Journal of Power Sources</i> , 2014, 272, 946-953.	4.0	114
35	On the complex interplay of crystallinity and surface area effects on Li-ion intercalation and pseudocapacitive storage properties of nanocrystalline anatase. <i>Journal of Power Sources</i> , 2014, 272, 58-67.	4.0	15
36	Silicon-Microtube Scaffold Decorated with Anatase TiO ₂ as a Negative Electrode for a 3D Lithium-Ion Microbattery. <i>Advanced Energy Materials</i> , 2014, 4, 1301612.	10.2	67
37	Hierarchically porous nanoflowers from TiO ₂ -B nanosheets with ultrahigh surface area for advanced lithium-ion batteries. <i>Journal of Physics and Chemistry of Solids</i> , 2014, 75, 619-623.	1.9	24

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39	Symmetric Aqueous Rechargeable Lithium Battery Using Na _{1.16} V ₃ O ₈ Nanobelts Electrodes for Safe High Volume Energy Storage Applications. Journal of the Electrochemical Society, 2014, 161, A256-A263.	1.3	22
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47	Aerosol-assisted processing of hierarchically organised TiO ₂ nanoparticles. International Journal of Materials and Product Technology, 2015, 50, 221.	0.1	6
48	A Density Functional Tight Binding Study of Acetic Acid Adsorption on Crystalline and Amorphous Surfaces of Titania. Molecules, 2015, 20, 3371-3388.	1.7	40
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52	High-performance electrode materials for lithium-ion batteries for electric vehicles. , 2015, , 191-241.		9
53	Polarization-Dependent Raman Spectroscopy of Epitaxial TiO ₂ (B) Thin Films. Chemistry of Materials, 2015, 27, 7896-7902.	3.2	29
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61	TiO ₂ polymorphs in "rocking-chair" Li-ion batteries. <i>Materials Today</i> , 2015, 18, 345-351.	8.3	143
62	Improved electrochemical performance of nitrogen doped TiO ₂ -B nanowires as anode materials for Li-ion batteries. <i>Nanoscale</i> , 2015, 7, 12215-12224.	2.8	67
63	Preparation of mesoporous TiO ₂ -B nanowires from titanium glycolate and their application as an anode material for lithium-ion batteries. <i>Journal of Materials Science</i> , 2015, 50, 6321-6328.	1.7	16
64	Microstructurally Composed Nanoparticle Assemblies as Electroactive Materials for Lithium-Ion Battery Electrodes. <i>Green Energy and Technology</i> , 2015, , 353-391.	0.4	1
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66	High power TiO ₂ and high capacity Sn-doped TiO ₂ nanomaterial anodes for lithium-ion batteries. <i>Journal of Power Sources</i> , 2015, 294, 94-102.	4.0	86
67	Hierarchical Nanotube-Constructed Porous TiO ₂ -B Spheres for High Performance Lithium Ion Batteries. <i>Scientific Reports</i> , 2015, 5, 11557.	1.6	53
68	Ultrafast sodium storage in anatase TiO ₂ nanoparticles embedded on carbon nanotubes. <i>Nano Energy</i> , 2015, 16, 218-226.	8.2	128
69	Multi-shelled hollow micro-/nanostructures. <i>Chemical Society Reviews</i> , 2015, 44, 6749-6773.	18.7	603
70	TiO ₂ (B)-CNT-graphene ternary composite anode material for lithium ion batteries. <i>RSC Advances</i> , 2015, 5, 22449-22454.	1.7	22
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78	Atomic structure of defects and interfaces in TiO ₂ -B and Ca:TiO ₂ -B (CaTi ₅ O ₁₁) films grown on SrTiO ₃ . CrystEngComm, 2015, 17, 4309-4315.	1.3	6
79	Constructing robust TiO ₂ -V ₂ O ₅ /C nanostructures decorated by multi-walled carbon nanotubes for high performance lithium ion batteries. Journal of Alloys and Compounds, 2015, 635, 158-162.	2.8	5
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82	Rational material design for ultrafast rechargeable lithium-ion batteries. Chemical Society Reviews, 2015, 44, 5926-5940.	18.7	857
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95	Effect of hydrogenation on performance of TiO ₂ (B) nanowire for lithium ion capacitors. Electrochemistry Communications, 2015, 60, 199-203.	2.3	46
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98	Facile synthetic route towards nanostructured Fe@TiO ₂ (B), used as negative electrode for Li-ion batteries. Journal of Power Sources, 2015, 278, 1-8.	4.0	28
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113	Multi-dimensionally ordered, multi-functionally integrated r-GO@TiO ₂ (B)@Mn ₃ O ₄ yolk-shell membrane-like shell superstructures for ultrafast lithium storage. <i>Nano Research</i> , 2016, 9, 2057-2069.	5.8	38
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120	Review of functional titanium oxides. I: TiO ₂ and its modifications. <i>Progress in Solid State Chemistry</i> , 2016, 44, 86-105.	3.9	252
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127	Conductive Inks Based on a Lithium Titanate Nanotube Gel for High-Rate Lithium-Ion Batteries with Customized Configuration. <i>Advanced Materials</i> , 2016, 28, 1567-1576.	11.1	178
128	Superior Sodium Storage in Na ₂ Ti ₃ O ₇ Nanotube Arrays through Surface Engineering. <i>Advanced Energy Materials</i> , 2016, 6, 1502568.	10.2	219
129	High-Rate Intercalation without Nanostructuring in Metastable Nb ₂ O ₅ Bronze Phases. <i>Journal of the American Chemical Society</i> , 2016, 138, 8888-8899.	6.6	247
130	Heteroepitaxy-Induced Rutile VO ₂ with Abundantly Exposed (002) Facets for High Lithium Electroactivity. <i>ACS Energy Letters</i> , 2016, 1, 216-224.	8.8	23

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142	Controllable synthesis of mesostructures from TiO ₂ hollow to porous nanospheres with superior rate performance for lithium ion batteries. Chemical Science, 2016, 7, 793-798.	3.7	147
143	Amorphous TiO ₂ nanoparticles: Synthesis and antibacterial capacity. Journal of Non-Crystalline Solids, 2017, 459, 192-205.	1.5	78
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145	Few-layer TiO ₂ â€”B nanosheets with N-doped graphene nanosheets as a highly robust anode for lithium-ion batteries. RSC Advances, 2017, 7, 7864-7869.	1.7	10
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