

Synthesis of Black TiO<sub>x</sub> Nanoparticles  
TiO<sub>2</sub> Nanocrystals and their Application for

Advanced Energy Materials

7, 1601811

DOI: 10.1002/aenm.201601811

Citation Report

#	ARTICLE	IF	CITATIONS
1	Robust and Low-Cost Flame-Treated Wood for High-Performance Solar Steam Generation. ACS Applied Materials & Interfaces, 2017, 9, 15052-15057.	4.0	463
2	Paper-based membranes on silicone floaters for efficient and fast solar-driven interfacial evaporation under one sun. Journal of Materials Chemistry A, 2017, 5, 16359-16368.	5.2	158
3	Magnetically recyclable self-assembled thin films for highly efficient water evaporation by interfacial solar heating. RSC Advances, 2017, 7, 19849-19855.	1.7	85
4	Reduced Graphene Oxide/Polyurethane Nanocomposite Foam as a Reusable Photoreceiver for Efficient Solar Steam Generation. Chemistry of Materials, 2017, 29, 5629-5635.	3.2	257
5	New insights into high temperature hydrothermal synthesis in the preparation of visible-light active, ordered mesoporous SiO <sub>2</sub> /TiO <sub>2</sub> composited photocatalysts. RSC Advances, 2017, 7, 19557-19564.	1.7	7
6	Solar water evaporation by black photothermal sheets. Nano Energy, 2017, 41, 269-284.	8.2	415
7	Interfacial solar heating by self-assembled Fe <sub>3</sub> O <sub>4</sub> @C film for steam generation. Materials Chemistry Frontiers, 2017, 1, 2620-2626.	3.2	59
8	A bioinspired capillary-driven pump for solar vapor generation. Nano Energy, 2017, 42, 115-121.	8.2	118
9	Plasmonic heating from indium nanoparticles on a floating microporous membrane for enhanced solar seawater desalination. Nanoscale, 2017, 9, 12843-12849.	2.8	91
10	Anti-icing properties of superhydrophobic stainless steel mesh at subzero temperatures. Surface Innovations, 2017, 5, 154-160.	1.4	18
11	Black titania/graphene oxide nanocomposite films with excellent photothermal property for solar steam generation. Journal of Materials Research, 2018, 33, 674-684.	1.2	65
12	Graphite powder/semipermeable collodion membrane composite for water evaporation. Solar Energy Materials and Solar Cells, 2018, 180, 34-45.	3.0	45
13	Two-Dimensional Flexible Bilayer Janus Membrane for Advanced Photothermal Water Desalination. ACS Energy Letters, 2018, 3, 1165-1171.	8.8	203
14	Air-water interface solar heating using titanium gauze coated with reduced TiO <sub>2</sub> nanotubes. Journal of Materials Science, 2018, 53, 9742-9754.	1.7	16
15	Emerging investigator series: the rise of nano-enabled photothermal materials for water evaporation and clean water production by sunlight. Environmental Science: Nano, 2018, 5, 1078-1089.	2.2	269
16	Black TiO <sub>2</sub> Nanomaterials: A Review of Recent Advances. Chemical Engineering Journal, 2018, 343, 708-736.	6.6	283
17	Solar-driven photothermal nanostructured materials designs and prerequisites for evaporation and catalysis applications. Materials Horizons, 2018, 5, 323-343.	6.4	513
18	Phosphorus induced crystallinity in carbon dots for solar light assisted seawater desalination. Journal of Materials Chemistry A, 2018, 6, 4111-4118.	5.2	53

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20	A highly flexible and washable nonwoven photothermal cloth for efficient and practical solar steam generation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7942-7949.	5.2	182
21	Macroporous Double-Network Hydrogel for High-Efficiency Solar Steam Generation Under 1 sun Illumination. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 10998-11007.	4.0	194
22	Constructing a novel strategy for controllable synthesis of corrosion resistant Ti <sup>3+</sup> self-doped titanium-silicon materials with efficient hydrogen evolution activity from simulated seawater. <i>Nanoscale</i> , 2018, 10, 2275-2284.	2.8	39
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25	Omnidirectional and effective salt-rejecting absorber with rationally designed nanoarchitecture for efficient and durable solar vapour generation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22976-22986.	5.2	48
26	All-Poly(ionic liquid) Membrane-Derived Porous Carbon Membranes: Scalable Synthesis and Application for Photothermal Conversion in Seawater Desalination. <i>ACS Nano</i> , 2018, 12, 11704-11710.	7.3	104
27	Low Cost, Robust, Environmentally Friendly Geopolymer-Mesoporous Carbon Composites for Efficient Solar Powered Steam Generation. <i>Advanced Functional Materials</i> , 2018, 28, 1803266.	7.8	117
28	Bifunctional, Moth-Eye-Like Nanostructured Black Titania Nanocomposites for Solar-Driven Clean Water Generation. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 39661-39669.	4.0	113
29	Titanium Dioxide/Graphene and Titanium Dioxide/Graphene Oxide Nanocomposites: Synthesis, Characterization and Photocatalytic Applications for Water Decontamination. <i>Catalysts</i> , 2018, 8, 491.	1.6	86
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37	Phase Transition Induced Conversion into a Photothermal Material: Quasi-Metallic WO <sub>2.9</sub> Nanorods for Solar Water Evaporation and Anticancer Photothermal Therapy. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10666-10671.	7.2	104
38	A Novel Ink-Stained Paper for Solar Heavy Metal Treatment and Desalination. <i>Solar Rrl</i> , 2018, 2, 1800073.	3.1	49
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57	Thermal Efficiency of Solar Steam Generation Approaching 100% through Capillary Water Transport. <i>Angewandte Chemie</i> , 2019, 131, 19217-19222.	1.6	122
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77	Shape Conformal and Thermal Insulative Organic Solar Absorber Sponge for Photothermal Water Evaporation and Thermoelectric Power Generation. <i>Advanced Energy Materials</i> , 2019, 9, 1900250.	10.2	286
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82	Photothermal materials: A key platform enabling highly efficient water evaporation driven by solar energy. <i>Materials Today Energy</i> , 2019, 12, 277-296.	2.5	250
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105	Copper nanoparticles with near-unity, omnidirectional, and broadband optical absorption for highly efficient solar steam generation. <i>Nanotechnology</i> , 2019, 30, 015402.	1.3	59
106	Recent advances in Ti <sup>3+</sup> self-doped nanostructured TiO <sub>2</sub> visible light photocatalysts for environmental and energy applications. <i>Chemical Engineering Journal</i> , 2020, 382, 123011.	6.6	122
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108	Novel advances in metal-based solar absorber for photothermal vapor generation. <i>Chinese Chemical Letters</i> , 2020, 31, 2159-2166.	4.8	39

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110	A flowerlike sponge coated with carbon black nanoparticles for enhanced solar vapor generation. <i>Journal of Materials Science</i> , 2020, 55, 298-308.	1.7	37
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118	Solar-Driven Thermal Water Evaporation: A Review. <i>ACS Energy Letters</i> , 2020, 5, 437-456.	8.8	224
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138	CoWO <sub>4</sub> -Based Photothermal Membranes for Solar-Driven Water Evaporation and Eutrophic Lake Water Purification. <i>ACS Omega</i> , 2020, 5, 31598-31607.	1.6	17
139	Well oil dispersed Au/oxygen-deficient TiO <sub>2</sub> nanofluids towards full spectrum solar thermal conversion. <i>Solar Energy Materials and Solar Cells</i> , 2020, 212, 110575.	3.0	25
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143	Donor-Acceptor Charge Migration System of Superhydrophilic Covalent Triazine Framework and Carbon Nanotube toward High Performance Solar Thermal Conversion. <i>ACS Energy Letters</i> , 2020, 5, 1300-1306.	8.8	47
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160	Spray-Coated Commercial PTFE Membrane from MoS <sub>2</sub> /LaF <sub>3</sub> /PDMS Ink as Solar Absorber for Efficient Solar Steam Generation. <i>Solar Rrl</i> , 2020, 4, 2000126.	3.1	31
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