Patrik Schmuki

List of Publications by Year
in descending order

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Version: 2024-02-01

711 papers	57,334 citations	1040 113 h-index	1895 208 g-index
750 all docs	750 docs citations	750 times ranked	31237 citing authors

#	Article	IF	Citations
1	Comparison of the sputtered TiO₂ anatase and rutile thin films as electron transporting layers in perovskite solar cells. Nano Select, 2022, 3, 990-997.	1.9	2
2	Optimized Pt Single Atom Harvesting on TiO₂ Nanotubesâ€"Towards a Most Efficient Photocatalyst. Small, 2022, 18, e2104892.	5.2	43
3	Li+ doped anodic TiO2 nanotubes for enhanced efficiency of Dye-sensitized solar cells. Surface Science, 2022, 718, 122012.	0.8	7
4	Facetâ€Control versus Coâ€Catalystâ€Control in Photocatalytic H₂ Evolution from Anatase TiO₂ Nanocrystals. ChemistryOpen, 2022, 11, e202200010.	0.9	6
5	A Few Pt Single Atoms Are Responsible for the Overall Coâ€Catalytic Activity in Pt/TiO₂ Photocatalytic H₂ Generation. Solar Rrl, 2022, 6, .	3.1	20
6	Photocatalytic Synthesis of Oxidized Graphite Enabled by Grey TiO₂ and Direct Formation of a Visibleâ€Lightâ€Active Titania/Graphene Oxide Nanocomposite. ChemPhotoChem, 2022, 6, .	1.5	6
7	Macrophage-like Cells Are Responsive to Titania Nanotube Intertube Spacingâ€"An In Vitro Study. International Journal of Molecular Sciences, 2022, 23, 3558.	1.8	4
8	A facile â€œdarkâ€•deposition approach for Pt singleâ€atom trapping on facetted anatase TiO2 nanoflakes and use in photocatalytic H2 generation. Electrochimica Acta, 2022, 412, 140129.	2.6	17
9	Nontoxic Liquid-Infused Slippery Coating Prepared on Steel Substrates Inhibits Corrosion and Biofouling Adhesion. ACS Applied Materials & Interfaces, 2022, 14, 29386-29397.	4.0	16
10	DC sputter deposited TiO2 layers on FTO: towards a maximum photoelectrochemical response of photoanodes. Journal of Materials Science, 2022, 57, 12960-12970.	1.7	5
11	Pt Single Atoms on TiO₂ Polymorphsâ€"Minimum Loading with a Maximized Photocatalytic Efficiency. Advanced Materials Interfaces, 2022, 9, .	1.9	20
12	Anodic self-assembly method for synthesizing hierarchical FeS/FeOx hollow nanospheres. Journal of Power Sources, 2021, 484, 229268.	4.0	7
13	Optical properties of silicon-implanted polycrystalline diamond membranes. Carbon, 2021, 174, 295-304.	5.4	8
14	Reduced grey brookite for noble metal free photocatalytic H₂evolution. Journal of Materials Chemistry A, 2021, 9, 1168-1179.	5.2	26
15	Constructing a photo-enzymatic cascade reaction and its in situ monitoring: enzymes hierarchically trapped in titania meso-porous MOFs as a new photosynthesis platform. Journal of Materials Chemistry A, 2021, 9, 14911-14919.	5.2	32
16	Photocatalytic Hydrogen Generation from Waterâ€Annealed TiO₂ Nanotubes with White and Grey Modification. ChemElectroChem, 2021, 8, 240-245.	1.7	11
17	Self-assembly and activation of a titania-nanotube based photocatalyst for H₂ evolution. Chemical Communications, 2021, 57, 7120-7123.	2.2	2
18	Photoelectrochemical performance of facet-controlled TiO₂ nanosheets grown hydrothermally on FTO. Nanoscale Advances, 2021, 3, 747-754.	2.2	12

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19	A drastic improvement in photocatalytic H₂ production by TiO₂ nanosheets grown directly on Ta₂O₅ substrates. Nanoscale, 2021, 13, 12750-12756.	2.8	7
20	Improvement of polymer properties for powder bed fusion by combining in situ PECVD nanoparticle synthesis and dry coating. Plasma Processes and Polymers, 2021, 18, 2000247.	1.6	9
21	Grey facet-controlled anatase nanosheets for photocatalytic H₂ evolution without co-catalyst. JPhys Energy, 2021, 3, 034003.	2.3	6
22	Intrinsically Ru-Doped Suboxide TiO₂ Nanotubes for Enhanced Photoelectrocatalytic H₂ Generation. Journal of Physical Chemistry C, 2021, 125, 6116-6127.	1.5	21
23	Photoelectrochemical performance of TiO2 photoanodes: Nanotube versus nanoflake electrodes. Electrochemistry Communications, 2021, 124, 106937.	2.3	14
24	Spatially Confined Formation of Single Atoms in Highly Porous Carbon Nitride Nanoreactors. ACS Nano, 2021, 15, 7790-7798.	7.3	33
25	Photocurrent conversion efficiency of TiO2 nanotube photoanodes in dependence of illumination intensity. Electrochimica Acta, 2021, 377, 137988.	2.6	15
26	Advanced Photocatalysts: Pinning Single Atom Coâ€Catalysts on Titania Nanotubes. Advanced Functional Materials, 2021, 31, 2102843.	7.8	44
27	Thermal Ramping Rate during Annealing of TiO₂ Nanotubes Greatly Affects Performance of Photoanodes. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2100040.	0.8	9
28	Solar steam generation on scalable ultrathin thermoplasmonic TiN nanocavity arrays. Nano Energy, 2021, 83, 105828.	8.2	56
29	A Oneâ€Pot Universal Approach to Fabricate Lubricantâ€Infused Slippery Surfaces on Solid Substrates. Advanced Functional Materials, 2021, 31, 2101090.	7.8	45
30	Nanoscale Assembly of BiVO4/CdS/CoOx Coreâ€“Shell Heterojunction for Enhanced Photoelectrochemical Water Splitting. Catalysts, 2021, 11, 682.	1.6	7
31	Transparent and Low-Loss Luminescent Solar Concentrators Based on Self-Trapped Exciton Emission in Lead-Free Double Perovskite Nanocrystals. ACS Applied Energy Materials, 2021, 4, 6445-6453.	2.5	27
32	Lightâ€Induced Migration of Spin Defects in TiO₂ Nanosystems and their Contribution to the H₂ Evolution Catalysis from Water. ChemSusChem, 2021, 14, 4408-4414.	3.6	8
33	Facile Approach of Direct Sulfidation of FTO to Form Vertically Aligned SnS₂ Nanoflake Photoanodes for Efficient Photoelectrochemical Water Splitting. ACS Applied Energy Materials, 2021, 4, 8395-8400.	2.5	6
34	As a single atom Pd outperforms Pt as the most active co-catalyst for photocatalytic H2 evolution. IScience, 2021, 24, 102938.	1.9	33
35	Uncovering the Role of Trioctylphosphine on Colloidal and Emission Stability of Sb-Alloyed Cs₂NaInCl₆ Double Perovskite Nanocrystals. ACS Applied Materials & Interfaces, 2021, 13, 47845-47859.	4.0	24
36	Self-assembly of a Ni(I)-photocatalyst for plain water splitting without sacrificial agents. Electrochemistry Communications, 2021, 122, 106909.	2.3	5

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37	Voltage-Switchable Biosensor with Gold Nanoparticles on TiO₂ Nanotubes Decorated with CdS Quantum Dots for the Detection of Cholesterol and H₂O₂. ACS Applied Materials & Interfaces, 2021, 13, 3653-3668.	4.0	52
38	A long-term stable aqueous aluminum battery electrode based on one-dimensional molybdenumâ€“tantalum oxide nanotube arrays. Nanoscale, 2021, 13, 6087-6095.	2.8	20
39	Enhancing Photoelectrochemical Energy Storage by Large-Area CdS-Coated Nickel Nanoantenna Arrays. ACS Applied Energy Materials, 2021, 4, 11367-11376.	2.5	10
40	Metallic nanoparticle-on-mirror: Multiple-band light harvesting and efficient photocurrent generation under visible light irradiation. Nano Energy, 2021, 90, 106609.	8.2	8
41	Hydrogenated anatase TiO₂ single crystals: defects formation and structural changes as microscopic origin of co-catalyst free photocatalytic H₂ evolution activity. Journal of Materials Chemistry A, 2021, 9, 24932-24942.	5.2	7
42	Self-assembled monolayers enhance the efficiency of Pt single atom co-catalysts in photocatalytic H2 generation. Electrochemistry Communications, 2021, 133, 107166.	2.3	10
43	Development of non-enzymatic cholesterol bio-sensor based on TiO2 nanotubes decorated with Cu2O nanoparticles. Sensors and Actuators B: Chemical, 2020, 302, 127200.	4.0	70
44	Photo-Electrochemical Solar-to-Fuel Energy Conversion by Hematite-Based Photo-Anodes â€“ The Role of 1D Nanostructuring. Zeitschrift Fur Physikalische Chemie, 2020, 234, 615-631.	1.4	8
45	Engineering of the Electron Transport Layer/Perovskite Interface in Solar Cells Designed on TiO₂ Rutile Nanorods. Advanced Functional Materials, 2020, 30, 1909738.	7.8	46
46	Effects of low oxygen annealing on the photoelectrochemical water splitting properties of Î±-Fe₂O₃. Journal of Materials Chemistry A, 2020, 8, 1315-1325.	5.2	48
47	Promoting the hydrogen evolution reaction through oxygen vacancies and phase transformation engineering on layered double hydroxide nanosheets. Journal of Materials Chemistry A, 2020, 8, 2490-2497.	5.2	159
48	Novel highly active and self-healing Co(CO₃)_xOH_y cocatalysts on BiVO₄ photoanodes for effective solar water oxidation. Journal of Materials Chemistry A, 2020, 8, 2563-2570.	5.2	40
49	Influence of Ti³⁺ defect-type on heterogeneous photocatalytic H₂ evolution activity of TiO₂. Journal of Materials Chemistry A, 2020, 8, 1432-1442.	5.2	89
50	Li⁺ Preâ€Insertion Leads to Formation of Solid Electrolyte Interface on TiO₂ Nanotubes That Enables Highâ€Performance Anodes for Sodium Ion Batteries. Advanced Energy Materials, 2020, 10, 1903448.	10.2	35
51	Upconversion Nanoparticle-Assisted Payload Delivery from TiO₂ under Near-Infrared Light Irradiation for Bacterial Inactivation. ACS Nano, 2020, 14, 337-346.	7.3	87
52	FeO-based nanostructures and nanohybrids for photoelectrochemical water splitting. Progress in Materials Science, 2020, 110, 100632.	16.0	47
53	Activation of Î±â€Fe₂O₃ for Photoelectrochemical Water Splitting Strongly Enhanced by Low Temperature Annealing in Low Oxygen Containing Ambient. Chemistry - A European Journal, 2020, 26, 2685-2692.	1.7	46
54	A Dewettedâ€Dealloyed Nanoporous Pt Coâ€Catalyst Formed on TiO₂ Nanotube Arrays Leads to Strongly Enhanced Photocatalytic H₂ Production. Chemistry - an Asian Journal, 2020, 15, 301-309.	1.7	25

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55	Fabrication of ideally ordered TiO₂ through-hole membranes by two-layer anodization. RSC Advances, 2020, 10, 37657-37661.	1.7	6
56	High-performance hydrogen evolution electrocatalysis using proton-intercalated TiO₂ nanotube arrays as interactive supports for Ir nanoparticles. Journal of Materials Chemistry A, 2020, 8, 22773-22790.	5.2	29
57	Morphology and Optical Properties of Highly Ordered TiO₂ Nanotubes Grown in NH₄F/o-H₃PO₄ Electrolytes in View of Light-Harvesting and Catalytic Applications. ACS Applied Nano Materials, 2020, 3, 10646-10658.	2.4	25
58	Thermalâ€Oxidative Growth of Substoichiometric WO_{3â€“x} Nanowires at Mild Conditions. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000235.	1.2	17
59	Longâ€Living Holes in Grey Anatase TiO₂ Enable Nobleâ€Metalâ€Free and Sacrificialâ€Agentâ€Free Water Splitting. ChemSusChem, 2020, 13, 4937-4944.	3.6	18
60	A High-Field Anodic NiO Nanosponge with Tunable Thickness for Application in p-Type Dye-Sensitized Solar Cells. ACS Applied Energy Materials, 2020, 3, 7865-7872.	2.5	9
61	Dewetting of PtCu Nanoalloys on TiO₂ Nanocavities Provides a Synergistic Photocatalytic Enhancement for Efficient H₂ Evolution. ACS Applied Materials & Interfaces, 2020, 12, 38211-38221.	4.0	40
62	Light-induced In-situ Ti³⁺ Formation in TiO₂ Nanosheets for Photocatalytic Hydrogen Evolution. IOP Conference Series: Materials Science and Engineering, 2020, 908, 012001.	0.3	3
63	Water Annealing of TiO₂ Nanotubes for Photocatalysis Revisited. ChemElectroChem, 2020, 7, 2792-2796.	1.7	13
64	Hierarchical Anodic TiO₂ Nanostructures Formed in Ethylene Glycol/oâ€H₃PO₄ Electrolytes for Direct Photocatalysis. ChemElectroChem, 2020, 7, 2859-2863.	1.7	5
65	Alkali Metal Cation Incorporation in Conductive TiO₂ Nanoflakes with Improved Photoelectrochemical H₂ Generation. ChemElectroChem, 2020, 7, 1699-1706.	1.7	9
66	Establishing High Photocatalytic H₂ Evolution from Multiwalled Titanate Nanotubes. ChemCatChem, 2020, 12, 2951-2956.	1.8	15
67	Less known facts and findings about TiO₂nanotubes. Nanoscale, 2020, 12, 8119-8132.	2.8	47
68	Multi-Leg TiO2 Nanotube Photoelectrodes Modified by Platinized Cyanographene with Enhanced Photoelectrochemical Performance. Catalysts, 2020, 10, 717.	1.6	9
69	An Operando X-ray Absorption Spectroscopy Study of a NiCuâ€“TiO₂ Photocatalyst for H₂ Evolution. ACS Catalysis, 2020, 10, 8293-8302.	5.5	46
70	On the Controlled Loading of Single Platinum Atoms as a Coâ€Catalyst on TiO₂ Anatase for Optimized Photocatalytic H₂ Generation. Advanced Materials, 2020, 32, e1908505.	11.1	189
71	Anodic nanoporous niobium oxide layers grown in pure molten ortho-phosphoric acid. Electrochimica Acta, 2020, 344, 136158.	2.6	16
72	Photoelectrochemical properties of â€œincreasingly darkâ€•TiO2 nanotube arrays. Journal of Electroanalytical Chemistry, 2020, 872, 114098.	1.9	15

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73	Optimized Polymer Electrolyte Membrane Fuel Cell Electrode Using TiO₂ Nanotube Arrays with Well-Defined Spacing. ACS Applied Nano Materials, 2020, 3, 4157-4170.	2.4	14
74	One-dimensional TiO2 nanotubeâ€"based photocatalysts: enhanced performance by site-selective decoration. Interface Science and Technology, 2020, 31, 231-264.	1.6	0
75	Solar Thermoplasmonic Nanofurnace for High-Temperature Heterogeneous Catalysis. Nano Letters, 2020, 20, 3663-3672.	4.5	49
76	Drug Delivery Systems Based on Titania Nanotubes and Active Agents for Enhanced Osseointegration of Bone Implants. Current Medicinal Chemistry, 2020, 27, 854-902.	1.2	22
77	Self-Organizing Anodization in Pure Molten Ortho-Phosphoric Acid: Nanoporous Niobium Oxide Layers. ECS Meeting Abstracts, 2020, MA2020-01, 2831-2831.	0.0	0
78	Dewetting-Alloying of Nicu Bilayers on TiO2 Surfaces for Noble Metal-Free Photocatalytic H2 Evolution. ECS Meeting Abstracts, 2020, MA2020-01, 892-892.	0.0	0
79	Template-Dewetted Au Nanoparticles on TiO₂ Nanocavities for Photocatalytic Reduction and Scavenging of Hg(II). ECS Meeting Abstracts, 2020, MA2020-01, 2717-2717.	0.0	1
80	Electrochemically Faceted Bambooâ€type TiO₂ Nanotubes Provide Enhanced Openâ€Circuit Hydrogen Evolution. ChemElectroChem, 2019, 6, 114-120.	1.7	7
81	Boronâ€Doped Diamond as an Efficient Back Contact to Thermally Grown TiO 2 Photoelectrodes. ChemElectroChem, 2019, 6, 4545-4549.	1.7	3
82	Black TiO2 nanotubes: Efficient electrodes for triggering electric field-induced stimulation of stem cell growth. Acta Biomaterialia, 2019, 97, 681-688.	4.1	17
83	Providing significantly enhanced photocatalytic H2 generation using porous PtPdAg alloy nanoparticles on spaced TiO2 nanotubes. International Journal of Hydrogen Energy, 2019, 44, 22962-22971.	3.8	27
84	Easy Room Temperature Synthesis of High Surface Area Anatase Nanowires with Different Morphologies. ChemistryOpen, 2019, 8, 813-813.	0.9	0
85	Effect of different hole scavengers on the photoelectrochemical properties and photocatalytic hydrogen evolution performance of pristine and Pt-decorated TiO2 nanotubes. Electrochimica Acta, 2019, 319, 61-71.	2.6	79
86	Post treatments effect on TiZr nanostructures fabricated via anodizing. Journal of Materials Research and Technology, 2019, 8, 5802-5812.	2.6	9
87	Amorphous Moâ€"Ta Oxide Nanotubes for Long-Term Stable Mo Oxide-Based Supercapacitors. ACS Applied Materials & Interfaces, 2019, 11, 45665-45673.	4.0	14
88	Photocatalytic H₂ Evolution: Dealloying as Efficient Tool for the Fabrication of Rhâ€decorated TiO₂ Nanotubes. ChemCatChem, 2019, 11, 6258-6262.	1.8	12
89	Anodic Titanium Dioxide Nanotubes for Magnetically Guided Therapeutic Delivery. Scientific Reports, 2019, 9, 13439.	1.6	28
90	Lateral Spacing of TiO2 Nanotubes Modulates Osteoblast Behavior. Materials, 2019, 12, 2956.	1.3	22

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91	Black and white anatase, rutile and mixed forms: band-edges and photocatalytic activity. Chemical Communications, 2019, 55, 533-536.	2.2	34
92	Photocatalytic reduction and scavenging of Hg(II) over templated-dewetted Au on TiO2 nanotubes. Photochemical and Photobiological Sciences, 2019, 18, 1046-1055.	1.6	20
93	Critical Factors in the Anodic Formation of Extremely Ordered Titania Nanocavities. Journal of the Electrochemical Society, 2019, 166, C3389-C3398.	1.3	19
94	Sulfur and Ti³⁺ coâ€Doping of TiO₂ Nanotubes Enhance Photocatalytic H₂ Evolution Without the Use of Any coâ€catalyst. Chemistry - an Asian Journal, 2019, 14, 2724-2730.	1.7	12
95	Dewetted Au Nanoparticles on TiO₂ Surfaces: Evidence of a Size-Independent Plasmonic Photoelectrochemical Response. Journal of Physical Chemistry C, 2019, 123, 16934-16942.	1.5	26
96	Composition Gradients in Sputtered Tiâ€“Au Alloys: Site-Selective Au Decoration of Anodic TiO₂ Nanotubes for Photocatalytic H₂ Evolution. ACS Applied Nano Materials, 2019, 2, 4018-4025.	2.4	15
97	Easy Room Temperature Synthesis of High Surface Area Anatase Nanowires with Different Morphologies. ChemistryOpen, 2019, 8, 817-821.	0.9	2
98	MagnÃ©li-Phases in Anatase Strongly Promote Cocatalyst-Free Photocatalytic Hydrogen Evolution. ACS Catalysis, 2019, 9, 3627-3632.	5.5	40
99	Selfâ€Enhancing H₂ Evolution from TiO₂ Nanostructures under Illumination. ChemSusChem, 2019, 12, 1900-1905.	3.6	40
100	Intracellular Drug Delivery with Anodic Titanium Dioxide Nanotubes and Nanocylinders. ACS Applied Materials & Interfaces, 2019, 11, 14980-14985.	4.0	29
101	Anodic Synthesis of Hierarchical SnS/SnO_x Hollow Nanospheres and Their Application for Highâ€Performance Naâ€Ion Batteries. Advanced Functional Materials, 2019, 29, 1901000.	7.8	43
102	Fe2O3 Blocking Layer Produced by Cyclic Voltammetry Leads to Improved Photoelectrochemical Performance of Hematite Nanorods. Surfaces, 2019, 2, 131-144.	1.0	10
103	Conductive Cuâ€Doped TiO₂ Nanotubes for Enhanced Photoelectrochemical Methanol Oxidation and Concomitant Hydrogen Generation. ChemElectroChem, 2019, 6, 1244-1249.	1.7	17
104	Radiative and Non-Radiative Recombination Pathways in Mixed-Phase TiO2 Nanotubes for PEC Water-Splitting. Catalysts, 2019, 9, 204.	1.6	38
105	MagnÃ©li Phases Doped with Pt for Photocatalytic Hydrogen Evolution. ACS Applied Energy Materials, 2019, 2, 8399-8404.	2.5	18
106	Dye-sensitized TiO2 nanotube membranes act as a visible-light switchable diffusion gate. Nanoscale Advances, 2019, 1, 4844-4852.	2.2	3
107	Ordered Nanotubular Titanium Disulfide (TiS₂) Structures: Synthesis and Use as Counter Electrodes in Dye Sensitized Solar Cells (DSSCs). Journal of the Electrochemical Society, 2019, 166, H3009-H3013.	1.3	13
108	Intrinsic Au-decoration on anodic TiO2 nanotubes grown from metastable Tiâ€“Au sputtered alloysâ€”High density co-catalyst decoration enhances the photocatalytic H2 evolution. Applied Materials Today, 2019, 14, 118-125.	2.3	21

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109	Photocatalysis with Reduced TiO₂: From Black TiO₂ to Cocatalyst-Free Hydrogen Production. ACS Catalysis, 2019, 9, 345-364.	5.5	495
110	Intrinsic Cu nanoparticle decoration of TiO2 nanotubes: A platform for efficient noble metal free photocatalytic H2 production. Electrochemistry Communications, 2019, 98, 82-86.	2.3	32
111	(Invited) A New Perspective for Photoelectrochemical Water Splitting: Black TiO2 Nanotubes. ECS Meeting Abstracts, 2019, , .	0.0	0
112	(Invited) TiO2 Nanotube Arrays: Photoelectrochemical and Photocatalytic Applications. ECS Meeting Abstracts, 2019, , .	0.0	0
113	TiO₂nanotubes with different spacing, Fe₂O₃decoration and their evaluation for Li-ion battery application. Nanotechnology, 2018, 29, 195402.	1.3	25
114	Depth elemental characterization of 1D self-aligned TiO2 nanotubes using calibrated radio frequency glow discharge optical emission spectroscopy (GDOES). Applied Surface Science, 2018, 442, 412-416.	3.1	25
115	Critical parameters and factors in the formation of spaced TiO2 nanotubes by self-organizing anodization. Electrochimica Acta, 2018, 268, 435-447.	2.6	62
116	Sbâ€Doped SnO₂ Nanorods Underlayer Effect to the Î±â€Fe₂O₃ Nanorods Sheathed with TiO₂ for Enhanced Photoelectrochemical Water Splitting. Small, 2018, 14, e1703860.	5.2	69
117	Hematite Photoanode with Complex Nanoarchitecture Providing Tunable Gradient Doping and Low Onset Potential for Photoelectrochemical Water Splitting. ChemSusChem, 2018, 11, 1873-1879.	3.6	33
118	Metalâ€“Phosphate Bilayers for Anatase Surface Modification. ACS Applied Materials & Interfaces, 2018, 10, 6661-6672.	4.0	10
119	Spaced Titania Nanotube Arrays Allow the Construction of an Efficient Nâ€Doped Hierarchical Structure for Visibleâ€Light Harvesting. ChemistryOpen, 2018, 7, 131-135.	0.9	5
120	Templated Dewettingâ€“Alloying of NiCu Bilayers on TiO₂ Nanotubes Enables Efficient Noble-Metal-Free Photocatalytic H₂ Evolution. ACS Catalysis, 2018, 8, 5298-5305.	5.5	61
121	Incorporation of bioactive glass nanoparticles in electrospun PCL/chitosan fibers by using benign solvents. Bioactive Materials, 2018, 3, 55-63.	8.6	103
122	Nanostar morphology of plasmonic particles strongly enhances photoelectrochemical water splitting of TiO2 nanorods with superior incident photon-to-current conversion efficiency in visible/near-infrared region. Electrochimica Acta, 2018, 260, 212-220.	2.6	38
123	A Cocatalytic Electronâ€Transfer Cascade Siteâ€Selectively Placed on TiO₂ Nanotubes Yields Enhanced Photocatalytic H₂ Evolution. Advanced Functional Materials, 2018, 28, 1704259.	7.8	83
124	Uniform ALD deposition of Pt nanoparticles within 1D anodic TiO2 nanotubes for photocatalytic H2 generation. Electrochemistry Communications, 2018, 86, 6-11.	2.3	43
125	Efficient Preparation Process for TiO₂ Through-Hole Membranes with Ordered Hole Arrangements. Journal of the Electrochemical Society, 2018, 165, E763-E767.	1.3	6
126	Photoelectrocatalytic oxidation of As(III) over hematite photoanodes: A sensible indicator of the presence of highly reactive surface sites. Electrochimica Acta, 2018, 292, 828-837.	2.6	13

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127	Optimized Spacing between TiO₂ Nanotubes for Enhanced Light Harvesting and Charge Transfer. ChemElectroChem, 2018, 5, 3183-3190.	1.7	26
128	Intrinsic AuPt-alloy particles decorated on TiO2 nanotubes provide enhanced photocatalytic degradation. Electrochimica Acta, 2018, 292, 865-870.	2.6	24
129	Spaced TiO₂ Nanotubes Enable Optimized Pt Atomic Layer Deposition for Efficient Photocatalytic H₂ Generation. ChemistryOpen, 2018, 7, 797-802.	0.9	12
130	Inducing a Nanotwinned Grain Structure within the TiO₂ Nanotubes Provides Enhanced Electron Transport and DSSC Efficiencies >10%. Advanced Energy Materials, 2018, 8, 1800981.	10.2	42
131	Tunable Transformation Between SnS and SnO_x Nanostructures via Facile Anodization and Their Photoelectrochemical and Photocatalytic Performance. Solar Rrl, 2018, 2, 1800161.	3.1	13
132	Hematite dodecahedron crystals with high-index facets grown and grafted on one dimensional structures for efficient photoelectrochemical H2 generation. Nano Energy, 2018, 50, 331-338.	8.2	25
133	Site-selective Pt dewetting on WO3-coated TiO2 nanotube arrays: An electron transfer cascade-based H2 evolution photocatalyst. Applied Catalysis B: Environmental, 2018, 237, 198-205.	10.8	82
134	Anodic TiO2 nanotubes decorated by Pt nanoparticles using ALD: An efficient electrocatalyst for methanol oxidation. Journal of Catalysis, 2018, 365, 86-93.	3.1	45
135	Nanoporous AuPt and AuPtAg alloy co-catalysts formed by dewettingâ€“dealloying on an ordered TiO₂ nanotube surface lead to significantly enhanced photocatalytic H₂ generation. Journal of Materials Chemistry A, 2018, 6, 13599-13606.	5.2	37
136	A direct synthesis of platinum/nickel co-catalysts on titanium dioxide nanotube surface from hydrometallurgical-type process streams. Journal of Cleaner Production, 2018, 201, 39-48.	4.6	24
137	TiO2 Nanotubes on Transparent Substrates: Control of Film Microstructure and Photoelectrochemical Water Splitting Performance. Catalysts, 2018, 8, 25.	1.6	19
138	Forming a Highly Active, Homogeneously Alloyed AuPt Co-catalyst Decoration on TiO₂ Nanotubes Directly During Anodic Growth. ACS Applied Materials & Interfaces, 2018, 10, 18220-18226.	4.0	37
139	Intrinsically Activated SrTiO₃: Photocatalytic H₂ Evolution from Neutral Aqueous Methanol Solution in the Absence of Any Noble Metal Cocatalyst. ACS Applied Materials & Interfaces, 2018, 10, 29532-29542.	4.0	46
140	Capacitance response in an aqueous electrolyte of Nb2O5 nanochannel layers anodically grown in pure molten o-H3PO4. Electrochimica Acta, 2018, 281, 725-737.	2.6	17
141	MoS2 Decorated on Different Metal Oxide Nanotubular Structures with a High Density of Reactive Sites for HER Reactions. ECS Meeting Abstracts, 2018, , .	0.0	0
142	Noble-Metal-Free Photocatalytic Hydrogen Evolution Activity:Defect Engineering in TiO2 Nanotubes. ECS Meeting Abstracts, 2018, MA2018-01, 1899-1899.	0.0	0
143	Highly Conducting Spaced TiO₂ Nanotubes Enable Defined Conformal Coating with Nanocrystalline Nb₂O₅ and High Performance Supercapacitor Applications. Small, 2017, 13, 1603821.	5.2	57
144	The double-walled nature of TiO 2 nanotubes and formation of tube-in-tube structures â€“ a characterization of different tube morphologies. Electrochimica Acta, 2017, 231, 721-731.	2.6	38

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145	Fast growth of TiO 2 nanotube arrays with controlled tube spacing based on a self-ordering process at two different scales. Electrochemistry Communications, 2017, 77, 98-102.	2.3	34
146	On the Supercapacitive Behaviour of Anodic Porous WO3-Based Negative Electrodes. Electrochimica Acta, 2017, 232, 192-201.	2.6	55
147	Alternating Current Electrophoretic Deposition for the Immobilization of Antimicrobial Agents on Titanium Implant Surfaces. ACS Applied Materials & Interfaces, 2017, 9, 8533-8546.	4.0	21
148	Noble metal free photocatalytic H2 generation on black TiO2: On the influence of crystal facets vs. crystal damage. Applied Physics Letters, 2017, 110, .	1.5	16
149	Photoanodes based on TiO₂and Î±-Fe₂O₃for solar water splitting â€“ superior role of 1D nanoarchitectures and of combined heterostructures. Chemical Society Reviews, 2017, 46, 3716-3769.	18.7	535
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