Patrik Schmuki

List of Publications by Year
in descending order

711 papers	57,334 citations	1046 113 h-index	1900 208 g-index
750 all docs	750 docs citations	750 times ranked	31237 citing authors

#	Article	IF	Citations
1	TiO₂ Nanotubes: Synthesis and Applications. Angewandte Chemie - International Edition, 2011, 50, 2904-2939.	13.8	2,752
2	TiO2 nanotubes: Self-organized electrochemical formation, properties and applications. Current Opinion in Solid State and Materials Science, 2007, 11, 3-18.	11.5	1,218
3	High-Aspect-Ratio TiO2Nanotubes by Anodization of Titanium. Angewandte Chemie - International Edition, 2005, 44, 2100-2102.	13.8	1,111
4	Nanosize and Vitality:â€‰ TiO2 Nanotube Diameter Directs Cell Fate. Nano Letters, 2007, 7, 1686-1691.	9.1	1,111
5	One-Dimensional Titanium Dioxide Nanomaterials: Nanotubes. Chemical Reviews, 2014, 114, 9385-9454.	47.7	1,045
6	Smooth Anodic TiO2 Nanotubes. Angewandte Chemie - International Edition, 2005, 44, 7463-7465.	13.8	832
7	Self-ordering electrochemistry: a review on growth and functionality of TiO2 nanotubes and other self-aligned MOx structures. Chemical Communications, 2009, , 2791.	4.1	786
8	Self-Organized TiO2 Nanotube Layers as Highly Efficient Photocatalysts. Small, 2007, 3, 300-304.	10.0	766
9	Dye-Sensitized Solar Cells Based on Oriented TiO₂ Nanotube Arrays: Transport, Trapping, and Transfer of Electrons. Journal of the American Chemical Society, 2008, 130, 13364-13372.	13.7	747
10	Self-Organized, Free-Standing TiO2Nanotube Membrane for Flow-through Photocatalytic Applications. Nano Letters, 2007, 7, 1286-1289.	9.1	689
11	Engineering biocompatible implant surfaces. Progress in Materials Science, 2013, 58, 261-326.	32.8	627
12	A Review of Photocatalysis using Selfâ€organized TiO₂ Nanotubes and Other Ordered Oxide Nanostructures. Small, 2012, 8, 3073-3103.	10.0	606
13	TiO2 nanotubes and their application in dye-sensitized solar cells. Nanoscale, 2010, 2, 45-59.	5.6	571
14	A generic interface to reduce the efficiency-stability-cost gap of perovskite solar cells. Science, 2017, 358, 1192-1197.	12.6	554
15	Ion Implantation and Annealing for an Efficient N-Doping of TiO2 Nanotubes. Nano Letters, 2006, 6, 1080-1082.	9.1	546
16	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.	38.1	535
17	Self-Organized Porous Titanium Oxide Prepared in H[sub 2]SO[sub 4]/HF Electrolytes. Electrochemical and Solid-State Letters, 2003, 6, B12.	2.2	509
18	Photocatalysis with Reduced TiO₂: From Black TiO₂ to Cocatalyst-Free Hydrogen Production. ACS Catalysis, 2019, 9, 345-364.	11.2	495

#	Article	IF	Citations
19	TiO₂ Nanotube Surfaces: 15 nmâ€"An Optimal Length Scale of Surface Topography for Cell Adhesion and Differentiation. Small, 2009, 5, 666-671.	10.0	490
20	Mechanistic aspects and growth of large diameter self-organized TiO2 nanotubes. Journal of Electroanalytical Chemistry, 2008, 621, 254-266.	3.8	447
21	Anodic growth of self-organized anodic TiO2 nanotubes in viscous electrolytes. Electrochimica Acta, 2006, 52, 1258-1264.	5.2	439
22	Black TiO₂ Nanotubes: Cocatalyst-Free Open-Circuit Hydrogen Generation. Nano Letters, 2014, 14, 3309-3313.	9.1	417
23	TiO2 nanotubes: Tailoring the geometry in H3PO4/HF electrolytes. Electrochemistry Communications, 2006, 8, 1321-1325.	4.7	400
24	Amphiphilic TiO₂Nanotube Arrays: An Actively Controllable Drug Delivery System. Journal of the American Chemical Society, 2009, 131, 4230-4232.	13.7	399
25	Self-organized porous titanium oxide prepared in Na2SO4/NaF electrolytes. Electrochimica Acta, 2005, 50, 3679-3684.	5.2	391
26	Titanium oxide nanotubes prepared in phosphate electrolytes. Electrochemistry Communications, 2005, 7, 505-509.	4.7	381
27	Titanium nanostructures for biomedical applications. Nanotechnology, 2015, 26, 062002.	2.6	379
28	Dye-sensitized anodic TiO2 nanotubes. Electrochemistry Communications, 2005, 7, 1133-1137.	4.7	369
29	Photocatalytic activity of TiO2 nanotube layers loaded with Ag and Au nanoparticles. Electrochemistry Communications, 2008, 10, 71-75.	4.7	369
30	Doped TiO₂ and TiO₂ Nanotubes: Synthesis and Applications. ChemPhysChem, 2010, 11, 2698-2713.	2.1	352
31	TiO2 nanotubes, nanochannels and mesosponge: Self-organized formation and applications. Nano Today, 2013, 8, 235-264.	11.9	324
32	Nanoscale engineering of biomimetic surfaces: cues from the extracellular matrix. Cell and Tissue Research, 2010, 339, 131-153.	2.9	313
33	Bamboo-Type TiO₂ Nanotubes: Improved Conversion Efficiency in Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2008, 130, 16454-16455.	13.7	311
34	Enhancement and limits of the photoelectrochemical response from anodic TiO2 nanotubes. Applied Physics Letters, 2005, 87, 243114.	3.3	306
35	250 Âµm long anodic TiO2 nanotubes with hexagonal self-ordering. Physica Status Solidi - Rapid Research Letters, 2007, 1, R65-R67.	2.4	302
36	Filling of TiO₂ Nanotubes by Selfâ€Doping and Electrodeposition. Advanced Materials, 2007, 19, 3027-3031.	21.0	290

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37	Initiation and Growth of Self-Organized TiO[sub 2] Nanotubes Anodically Formed in NH[sub 4]Fâˆ•(NH[sub 4])[sub 2]SO[sub 4] Electrolytes. Journal of the Electrochemical Society, 2005, 152, B405.	2.9	284
38	Formation of self-organized niobium porous oxide on niobium. Electrochemistry Communications, 2005, 7, 97-100.	4.7	281
39	Hydroxyapatite growth on anodic TiO2 nanotubes. Journal of Biomedical Materials Research - Part A, 2006, 77A, 534-541.	4.0	268
40	Self-organized nanotubular oxide layers on Ti-6Al-7Nb and Ti-6Al-4V formed by anodization in NH4F solutions. Journal of Biomedical Materials Research - Part A, 2005, 75A, 928-933.	4.0	246
41	Tailoring the wettability of TiO2 nanotube layers. Electrochemistry Communications, 2005, 7, 1066-1070.	4.7	244
42	N-Doping of anodic TiO2 nanotubes using heat treatment in ammonia. Electrochemistry Communications, 2006, 8, 544-548.	4.7	244
43	Self-organized porous WO3 formed in NaF electrolytes. Electrochemistry Communications, 2005, 7, 295-298.	4.7	242
44	Morphological instability leading to formation of porous anodic oxide films. Nature Materials, 2012, 11, 162-166.	27.5	241
45	Photocatalysis with TiO₂ Nanotubes: â€œColorfulâ€•Reactivity and Designing Site-Specific Photocatalytic Centers into TiO₂ Nanotubes. ACS Catalysis, 2017, 7, 3210-3235.	11.2	236
46	Self-organized high aspect ratio porous hafnium oxide prepared by electrochemical anodization. Electrochemistry Communications, 2005, 7, 49-52.	4.7	233
47	From Bacon to barriers: a review on the passivity of metals and alloys. Journal of Solid State Electrochemistry, 2002, 6, 145-164.	2.5	232
48	Mechanistic Aspects of the Self-Organization Process for Oxide Nanotube Formation on Valve Metals. Journal of the Electrochemical Society, 2007, 154, C472.	2.9	231
49	Self-organized nanotubular TiO2 matrix as support for dispersed Pt/Ru nanoparticles: Enhancement of the electrocatalytic oxidation of methanol. Electrochemistry Communications, 2005, 7, 1417-1422.	4.7	224
50	Self-organized TiO2 nanotubes prepared in ammonium fluoride containing acetic acid electrolytes. Electrochemistry Communications, 2005, 7, 576-580.	4.7	223
51	TiO₂âˆ’WO₃ Composite Nanotubes by Alloy Anodization: Growth and Enhanced Electrochromic Properties. Journal of the American Chemical Society, 2008, 130, 16154-16155.	13.7	219
52	Narrow Window in Nanoscale Dependent Activation of Endothelial Cell Growth and Differentiation on TiO₂ Nanotube Surfaces. Nano Letters, 2009, 9, 3157-3164.	9.1	219
53	<i>In vivo</i> evaluation of anodic TiO₂ nanotubes: An experimental study in the pig. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2009, 89B, 165-171.	3.4	215
54	TiO2 nanotubes: H+insertion and strong electrochromic effects. Electrochemistry Communications, 2006, 8, 528-532.	4.7	210

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55	Magnetically Guided Titania Nanotubes for Siteâ€Selective Photocatalysis and Drug Release. Angewandte Chemie - International Edition, 2009, 48, 969-972.	13.8	210
56	Wetting behaviour of layers of TiO2 nanotubes with different diameters. Journal of Materials Chemistry, 2005, 15, 4488.	6.7	208
57	Control of morphology and composition of self-organized zirconium titanate nanotubes formed in (NH4)2SO4/NH4F electrolytes. Electrochimica Acta, 2007, 52, 4053-4061.	5.2	201
58	TiO2 Nanotube arrays: Elimination of disordered top layers (â€œnanograssâ€) for improved photoconversion efficiency in dye-sensitized solar cells. Electrochemistry Communications, 2008, 10, 1835-1838.	4.7	201
59	Vertically aligned mixed V2O5â€"TiO2 nanotube arrays for supercapacitor applications. Chemical Communications, 2011, 47, 7746.	4.1	199
60	Rapid anodic growth of TiO2 and WO3 nanotubes in fluoride free electrolytes. Electrochemistry Communications, 2007, 9, 947-952.	4.7	195
61	Growth of Aligned TiO₂ Bambooâ€Type Nanotubes and Highly Ordered Nanolace. Angewandte Chemie - International Edition, 2008, 47, 1916-1919.	13.8	195
62	Towards ideal hexagonal selfâ€ordering of TiO₂ nanotubes. Physica Status Solidi - Rapid Research Letters, 2007, 1, 181-183.	2.4	192
63	Improved efficiency of TiO2 nanotubes in dye sensitized solar cells by decoration with TiO2 nanoparticles. Electrochemistry Communications, 2009, 11, 1001-1004.	4.7	192
64	Thick self-organized porous zirconium oxide formed in H2SO4/NH4F electrolytes. Electrochemistry Communications, 2004, 6, 1131-1134.	4.7	190
65	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.	21.0	189
66	Nb doped TiO2 nanotubes for enhanced photoelectrochemical water-splitting. Nanoscale, 2011, 3, 3094.	5.6	186
67	Improved attachment of mesenchymal stem cells on super-hydrophobic TiO2 nanotubes. Acta Biomaterialia, 2008, 4, 1576-1582.	8.3	185
68	Influence of water content on nanotubular anodic titania formed in fluoride/glycerol electrolytes. Electrochimica Acta, 2009, 54, 4321-4327.	5.2	177
69	TiO2â€"Nb2O5 Nanotubes with Electrochemically Tunable Morphologies. Angewandte Chemie - International Edition, 2006, 45, 6993-6996.	13.8	174
70	Bioactivation of titanium surfaces using coatings of TiO2 nanotubes rapidly pre-loaded with synthetic hydroxyapatite. Acta Biomaterialia, 2009, 5, 2322-2330.	8.3	174
71	TiO₂ Nanotubes in Dyeâ€Sensitized Solar Cells: Critical Factors for the Conversion Efficiency. Chemistry - an Asian Journal, 2009, 4, 520-525.	3.3	174
72	â€œBlackâ€•TiO₂ Nanotubes Formed by High-Energy Proton Implantation Show Noble-Metal-<i>co</i>-Catalyst Free Photocatalytic H₂-Evolution. Nano Letters, 2015, 15, 6815-6820.	9.1	174

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73	The composition of the boundary region of MnS inclusions in stainless steel and its relevance in triggering pitting corrosion. Corrosion Science, 2005, 47, 1239-1250.	6.6	170
74	Photoresponse in the visible range from Cr doped TiO2 nanotubes. Chemical Physics Letters, 2007, 433, 323-326.	2.6	167
75	Anodic TiO2 nanotube layers: Why does self-organized growth occurâ€"A mini review. Electrochemistry Communications, 2014, 46, 157-162.	4.7	165
76	Annealing effects on the photoresponse of TiO2nanotubes. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, R28-R30.	1.8	164
77	Time-dependent growth of biomimetic apatite on anodic TiO2 nanotubes. Electrochimica Acta, 2008, 53, 6995-7003.	5.2	164
78	Anodic Formation of Thick Anatase TiO₂ Mesosponge Layers for High-Efficiency Photocatalysis. Journal of the American Chemical Society, 2010, 132, 1478-1479.	13.7	163
79	Size selective behavior of mesenchymal stem cells on ZrO2 and TiO2 nanotube arrays. Integrative Biology (United Kingdom), 2009, 1, 525.	1.3	162
80	Self-organized porous TiO2 and ZrO2 produced by anodization. Corrosion Science, 2005, 47, 3324-3335.	6.6	161
81	Efficient oxygen reduction on layers of ordered TiO2 nanotubes loaded with Au nanoparticles. Electrochemistry Communications, 2007, 9, 1783-1787.	4.7	160
82	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.	10.3	159
83	Fabrication and characterization of smooth high aspect ratio zirconia nanotubes. Chemical Physics Letters, 2005, 410, 188-191.	2.6	158
84	Tantalum Nitride Nanorod Arrays: Introducing Niâ€"Fe Layered Double Hydroxides as a Cocatalyst Strongly Stabilizing Photoanodes in Water Splitting. Chemistry of Materials, 2015, 27, 2360-2366.	6.7	158
85	Formation of Doubleâ€Walled TiO₂ Nanotubes and Robust Anatase Membranes. Advanced Materials, 2008, 20, 4135-4139.	21.0	157
86	High photocurrent conversion efficiency in self-organized porous WO3. Applied Physics Letters, 2006, 88, 203119.	3.3	148
87	Characterization of electronic properties of TiO2 nanotube films. Corrosion Science, 2007, 49, 203-210.	6.6	148
88	Self-Assembled Porous Tantalum Oxide Prepared in H[sub 2]SO[sub 4]/HF Electrolytes. Electrochemical and Solid-State Letters, 2005, 8, J10.	2.2	146
89	Self-Organized Anodic TiO₂ Nanotube Arrays Functionalized by Iron Oxide Nanoparticles. Chemistry of Materials, 2009, 21, 662-672.	6.7	146
90	Electrochemically assisted photocatalysis on self-organized TiO2 nanotubes. Electrochemistry Communications, 2007, 9, 2822-2826.	4.7	145

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91	Efficient Photocatalytic H₂ Evolution: Controlled Dewettingâ€"Dealloying to Fabricate Siteâ€Selective Highâ€Activity Nanoporous Au Particles on Highly Ordered TiO₂ Nanotube Arrays. Advanced Materials, 2015, 27, 3208-3215.	21.0	140
92	A Photo-Electrochemical Investigation of Self-Organized TiO[sub 2] Nanotubes. Journal of the Electrochemical Society, 2010, 157, G76.	2.9	139
93	Self-Organized High-Aspect-Ratio Nanoporous Zirconium Oxides Prepared by Electrochemical Anodization. Small, 2005, 1, 722-725.	10.0	138
94	Metastable Pitting and Semiconductive Properties of Passive Films. Journal of the Electrochemical Society, 1992, 139, 1908-1913.	2.9	137
95	Conductivity of TiO2 nanotubes: Influence of annealing time and temperature. Chemical Physics Letters, 2010, 494, 260-263.	2.6	136
96	Semimetallic TiO₂ Nanotubes. Angewandte Chemie - International Edition, 2009, 48, 7236-7239.	13.8	133
97	Ultrafast Growth of Highly Ordered Anodic TiO₂ Nanotubes in Lactic Acid Electrolytes. Journal of the American Chemical Society, 2012, 134, 11316-11318.	13.7	133
98	Initiation and Formation of Porous GaAs. Journal of the Electrochemical Society, 1996, 143, 3316-3322.	2.9	130
99	Tracer Investigation of Pore Formation in Anodic Titania. Journal of the Electrochemical Society, 2008, 155, C487.	2.9	129
100	TiO₂ Nanotubes â€" Annealing Effects on Detailed Morphology and Structure. European Journal of Inorganic Chemistry, 2010, 2010, 4351-4356.	2.0	129
101	Aligned metal oxide nanotube arrays: key-aspects of anodic TiO₂nanotube formation and properties. Nanoscale Horizons, 2016, 1, 445-466.	8.0	129
102	Enhanced electrochromic properties of self-organized nanoporous WO3. Electrochemistry Communications, 2008, 10, 1777-1780.	4.7	122
103	Carbon doping of self-organized TiO2nanotube layers by thermal acetylene treatment. Nanotechnology, 2007, 18, 105604.	2.6	121
104	Influence of Water Content on the Growth of Anodic TiO[sub 2] Nanotubes in Fluoride-Containing Ethylene Glycol Electrolytes. Journal of the Electrochemical Society, 2010, 157, C18.	2.9	121
105	Enhanced photochromism of Ag loaded self-organized TiO2 nanotube layers. Chemical Physics Letters, 2007, 445, 233-237.	2.6	120
106	Visible photoluminescence from porous GaAs. Applied Physics Letters, 1996, 69, 1620-1622.	3.3	119
107	TiO₂ Nanotubes: Nitrogenâ€Ion Implantation at Low Dose Provides Nobleâ€Metalâ€Free Photocatalytic H₂â€Evolution Activity. Angewandte Chemie - International Edition, 2016, 55, 3763-3767.	13.8	119
108	Dye-sensitized solar cells based on thick highly ordered TiO₂nanotubes produced by controlled anodic oxidation in non-aqueous electrolytic media. Nanotechnology, 2008, 19, 235602.	2.6	118

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109	Synergistic Control of Mesenchymal Stem Cell Differentiation by Nanoscale Surface Geometry and Immobilized Growth Factors on TiO₂ Nanotubes. Small, 2012, 8, 98-107.	10.0	118
110	Adhesion of osteoblasts to a nanorough titanium implant surface. International Journal of Nanomedicine, 2011, 6, 1801.	6.7	117
111	Size-effects in TiO2 nanotubes: Diameter dependent anatase/rutile stabilization. Electrochemistry Communications, 2011, 13, 538-541.	4.7	117
112	Highâ€Contrast Electrochromic Switching Using Transparent Liftâ€Off Layers of Selfâ€Organized TiO₂ Nanotubes. Small, 2008, 4, 1063-1066.	10.0	116
113	Transparent TiO₂ Nanotube Electrodes via Thin Layer Anodization: Fabrication and Use in Electrochromic Devices. Langmuir, 2009, 25, 4841-4844.	3.5	116
114	Formation of Self-Organized Zirconium Titanate Nanotube Layers by Alloy Anodization. Advanced Materials, 2007, 19, 1757-1760.	21.0	115
115	Nb doping of TiO₂nanotubes for an enhanced efficiency of dye-sensitized solar cells. Chemical Communications, 2011, 47, 2032-2034.	4.1	114
116	Highly uniform Pt nanoparticle decoration on TiO2 nanotube arrays: A refreshable platform for methanol electrooxidation. Electrochemistry Communications, 2011, 13, 290-293.	4.7	114
117	TiO2 nanotube layers: Dose effects during nitrogen doping by ion implantation. Chemical Physics Letters, 2006, 419, 426-429.	2.6	112
118	Hierarchical DSSC structures based on â€œsingle walledâ€•TiO₂ nanotube arrays reach a back-side illumination solar light conversion efficiency of 8%. Energy and Environmental Science, 2015, 8, 849-854.	30.8	111
119	Voltageâ€Induced Payload Release and Wettability Control on TiO₂ and TiO₂ Nanotubes. Angewandte Chemie - International Edition, 2010, 49, 351-354.	13.8	110
120	Phase Composition, Size, Orientation, and Antenna Effects of Self-Assembled Anodized Titania Nanotube Arrays: A Polarized Micro-Raman Investigation. Journal of Physical Chemistry C, 2008, 112, 12687-12696.	3.1	109
121	Oxide Nanotubes on Tiâˆ'Ru Alloys: Strongly Enhanced and Stable Photoelectrochemical Activity for Water Splitting. Journal of the American Chemical Society, 2011, 133, 5629-5631.	13.7	109
122	Smooth anodic TiO2nanotubes: annealing and structure. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, R67-R69.	1.8	106
123	High aspect ratio ordered nanoporous Ta2O5 films by anodization of Ta. Electrochemistry Communications, 2008, 10, 428-432.	4.7	106
124	Strongly Enhanced Water Splitting Performance of Ta₃N₅ Nanotube Photoanodes with Subnitrides. Advanced Materials, 2016, 28, 2432-2438.	21.0	106
125	Transition of TiO2 nanotubes to nanopores for electrolytes with very low water contents. Electrochemistry Communications, 2010, 12, 1184-1186.	4.7	105
126	Transition from Nanopores to Nanotubes: Self-Ordered Anodic Oxide Structures on Titaniumâˆ'Aluminides. Chemistry of Materials, 2008, 20, 3245-3247.	6.7	104

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127	TiO2 nanotubes in dye-sensitized solar cells: Higher efficiencies by well-defined tube tops. Electrochemistry Communications, 2010, 12, 949-951.	4.7	104
128	Intrinsic Au Decoration of Growing TiO₂ Nanotubes and Formation of a Highâ€Efficiency Photocatalyst for H₂ Production. Advanced Materials, 2013, 25, 6133-6137.	21.0	103
129	Incorporation of bioactive glass nanoparticles in electrospun PCL/chitosan fibers by using benign solvents. Bioactive Materials, 2018, 3, 55-63.	15.6	103
130	Illumination effects on the stability of the passive film on iron. Electrochimica Acta, 1995, 40, 775-783.	5.2	102
131	The origin for tubular growth of TiO2 nanotubes: A fluoride rich layer between tube-walls. Surface Science, 2011, 605, L57-L60.	1.9	102
132	Photoanodes with Fully Controllable Texture: The Enhanced Water Splitting Efficiency of Thin Hematite Films Exhibiting Solely (110) Crystal Orientation. ACS Nano, 2015, 9, 7113-7123.	14.6	102
133	Lattice Widening in Niobiumâ€Doped TiO₂ Nanotubes: Efficient Ion Intercalation and Swift Electrochromic Contrast. Angewandte Chemie - International Edition, 2008, 47, 7934-7937.	13.8	101
134	TiO₂ nanotubes: photocatalyst for cancer cell killing. Physica Status Solidi - Rapid Research Letters, 2008, 2, 194-196.	2.4	100
135	Optimized monolayer grafting of 3-aminopropyltriethoxysilane onto amorphous, anatase and rutile TiO2. Surface Science, 2010, 604, 346-353.	1.9	100
136	Solar water splitting: preserving the beneficial small feature size in porous Î±-Fe₂O₃photoelectrodes during annealing. Journal of Materials Chemistry A, 2013, 1, 212-215.	10.3	100
137	Aligned MoO_{<i>x</i>}/MoS₂ Coreâ€“Shell Nanotubular Structures with a High Density of Reactive Sites Based on Selfâ€Ordered Anodic Molybdenum Oxide Nanotubes. Angewandte Chemie - International Edition, 2016, 55, 12252-12256.	13.8	100
138	Nanotube oxide coating on Tiâ€“29Nbâ€“13Taâ€“4.6Zr alloy prepared by self-organizing anodization. Electrochimica Acta, 2006, 52, 94-101.	5.2	98
139	Protein interactions with layers of TiO2 nanotube and nanopore arrays: Morphology and surface charge influence. Acta Biomaterialia, 2016, 45, 357-366.	8.3	98
140	Templated dewetting: designing entirely self-organized platforms for photocatalysis. Chemical Science, 2016, 7, 6865-6886.	7.4	98
141	A lithographic approach to determine volume expansion factors during anodization: Using the example of initiation and growth of TiO2-nanotubes. Electrochimica Acta, 2009, 54, 5942-5948.	5.2	97
142	WO₃/TiO₂ Nanotubes with Strongly Enhanced Photocatalytic Activity. Chemistry - A European Journal, 2010, 16, 8993-8997.	3.3	97
143	Î±-Fe₂O₃/TiO₂3D hierarchical nanostructures for enhanced photoelectrochemical water splitting. Nanoscale, 2017, 9, 134-142.	5.6	97
144	Selfâ€organized TiO₂ Nanotube Arrays: Critical Effects on Morphology and Growth. Israel Journal of Chemistry, 2010, 50, 453-467.	2.3	96

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145	Hematite Photoanodes: Synergetic Enhancement of Light Harvesting and Charge Management by Sandwiched with Fe₂TiO₅/Fe₂O₃/Pt Structures. Advanced Functional Materials, 2017, 27, 1703527.	14.9	96
146	Self-Organization of Anodic Nanotubes on Two Size Scales. Small, 2006, 2, 888-891.	10.0	95
147	Modulated TiO2 nanotube stacks and their use in interference sensors. Electrochemistry Communications, 2010, 12, 579-582.	4.7	95
148	Influence of anodization parameters on the expansion factor of TiO2 nanotubes. Electrochimica Acta, 2013, 91, 90-95.	5.2	95
149	Decoration of TiO2 nanotube layers with WO3 nanocrystals for high-electrochromic activity. Electrochemistry Communications, 2009, 11, 728-732.	4.7	94
150	Reduced inflammatory activity of RAW 264.7 macrophages on titania nanotube modified Ti surface. International Journal of Biochemistry and Cell Biology, 2014, 55, 187-195.	2.8	94
151	Visibleâ€Lightâ€Triggered Drug Release from TiO₂ Nanotube Arrays: A Controllable Antibacterial Platform. Angewandte Chemie - International Edition, 2016, 55, 593-597.	13.8	94
152	Efficient solar energy conversion using TiO2 nanotubes produced by rapid breakdown anodization â€“ a comparison. Physica Status Solidi - Rapid Research Letters, 2007, 1, 135-137.	2.4	93
153	Plasmon-induced hole-depletion layer on hematite nanoflake photoanodes for highly efficient solar water splitting. Nano Energy, 2017, 35, 171-178.	16.0	93
154	Light Emitting Micropatterns of Porous Si Created at Surface Defects. Physical Review Letters, 1998, 80, 4060-4063.	7.8	92
155	Electrochemical Behavior of Cr2â€‰Oâ€‰3â€‰/â€‰Fe2â€‰Oâ€‰3 Artificial Passive Films Studied by In Situ XANES. Journal of the Electrochemical Society, 1998, 145, 791-801.	2.9	92
156	On wafer TiO2 nanotube-layer formation by anodization of Ti-films on Si. Chemical Physics Letters, 2006, 428, 421-425.	2.6	92
157	Enhanced visible light photocurrent generation at surface-modified TiO2 nanotubes. Electrochimica Acta, 2009, 54, 2640-2646.	5.2	91
158	Formation of â€˜single walledâ€™ TiO2 nanotubes with significantly enhanced electronic properties for higher efficiency dye-sensitized solar cells. Chemical Communications, 2013, 49, 2067.	4.1	91
159	Photoelectrochemical properties of N-doped self-organized titania nanotube layers with different thicknesses. Journal of Materials Research, 2006, 21, 2824-2828.	2.6	90
160	Selfâ€Organized Arrays of Singleâ€Metal Catalyst Particles in TiO₂ Cavities: A Highly Efficient Photocatalytic System. Angewandte Chemie - International Edition, 2013, 52, 7514-7517.	13.8	89
161	Influence of Ti³⁺ defect-type on heterogeneous photocatalytic H₂ evolution activity of TiO₂. Journal of Materials Chemistry A, 2020, 8, 1432-1442.	10.3	89
162	Formation of hexagonally ordered nanoporous anodic zirconia. Electrochemistry Communications, 2008, 10, 1916-1919.	4.7	88

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163	Water annealing and other low temperature treatments of anodic TiO2 nanotubes: A comparison of properties and efficiencies in dye sensitized solar cells and for water splitting. Electrochimica Acta, 2012, 82, 98-102.	5.2	87
164	Taâ€Doped TiO₂ Nanotubes for Enhanced Solarâ€Light Photoelectrochemical Water Splitting. Chemistry - A European Journal, 2013, 19, 5841-5844.	3.3	87
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