

Patrik Schmuki

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

714
papers

49,282
citations

106
h-index

195
g-index

750
ext. papers

53,175
ext. citations

6.9
avg, IF

7.99
L-index

#	Paper	IF	Citations
714	Facet-Control versus Co-Catalyst-Control in Photocatalytic H Evolution from Anatase TiO Nanocrystals.. <i>ChemistryOpen</i> , 2022 , e202200010	2.3	1
713	Li+ doped anodic TiO2 nanotubes for enhanced efficiency of Dye-sensitized solar cells. <i>Surface Science</i> , 2022 , 718, 122012	1.8	1
712	A facile Electrodeposition approach for Pt single-atom trapping on faceted anatase TiO2 nanoflakes and use in photocatalytic H2 generation. <i>Electrochimica Acta</i> , 2022 , 412, 140129	6.7	4
711	Optimized Pt Single Atom Harvesting on TiO Nanotubes-Towards a Most Efficient Photocatalyst. <i>Small</i> , 2021 , e2104892	11	13
710	Self-assembled monolayers enhance the efficiency of Pt single atom co-catalysts in photocatalytic H2 generation. <i>Electrochemistry Communications</i> , 2021 , 133, 107166	5.1	2
709	Enhancing Photoelectrochemical Energy Storage by Large-Area CdS-Coated Nickel Nanoantenna Arrays. <i>ACS Applied Energy Materials</i> , 2021 , 4, 11367-11376	6.1	2
708	Metallic nanoparticle-on-mirror: Multiple-band light harvesting and efficient photocurrent generation under visible light irradiation. <i>Nano Energy</i> , 2021 , 90, 106609	17.1	3
707	Grey facet-controlled anatase nanosheets for photocatalytic H2 evolution without co-catalyst. <i>JPhys Energy</i> , 2021 , 3, 034003	4.9	3
706	Intrinsically Ru-Doped Suboxide TiO2 Nanotubes for Enhanced Photoelectrocatalytic H2 Generation. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 6116-6127	3.8	5
705	Photoelectrochemical performance of TiO2 photoanodes: Nanotube versus nanoflake electrodes. <i>Electrochemistry Communications</i> , 2021 , 124, 106937	5.1	6
704	Spatially Confined Formation of Single Atoms in Highly Porous Carbon Nitride Nanoreactors. <i>ACS Nano</i> , 2021 , 15, 7790-7798	16.7	9
703	Photocurrent conversion efficiency of TiO2 nanotube photoanodes in dependence of illumination intensity. <i>Electrochimica Acta</i> , 2021 , 377, 137988	6.7	3
702	Advanced Photocatalysts: Pinning Single Atom Co-Catalysts on Titania Nanotubes. <i>Advanced Functional Materials</i> , 2021 , 31, 2102843	15.6	16
701	Thermal Ramping Rate during Annealing of TiO2 Nanotubes Greatly Affects Performance of Photoanodes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021 , 218, 2100040	1.6	4
700	Solar steam generation on scalable ultrathin thermoplasmonic TiN nanocavity arrays. <i>Nano Energy</i> , 2021 , 83, 105828	17.1	18
699	A One-Pot Universal Approach to Fabricate Lubricant-Infused Slippery Surfaces on Solid Substrates. <i>Advanced Functional Materials</i> , 2021 , 31, 2101090	15.6	14
698	Nanoscale Assembly of BiVO4/CdS/CoOx Core-shell Heterojunction for Enhanced Photoelectrochemical Water Splitting. <i>Catalysts</i> , 2021 , 11, 682	4	2

697	Transparent and Low-Loss Luminescent Solar Concentrators Based on Self-Trapped Exciton Emission in Lead-Free Double Perovskite Nanocrystals. <i>ACS Applied Energy Materials</i> , 2021 , 4, 6445-6453	6.1	10
696	Anodic self-assembly method for synthesizing hierarchical FeS/FeOx hollow nanospheres. <i>Journal of Power Sources</i> , 2021 , 484, 229268	8.9	3
695	Optical properties of silicon-implanted polycrystalline diamond membranes. <i>Carbon</i> , 2021 , 174, 295-304	10.4	4
694	Reduced grey brookite for noble metal free photocatalytic H ₂ evolution. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 1168-1179	13	6
693	Constructing a photo-enzymatic cascade reaction and its in situ monitoring: enzymes hierarchically trapped in titania meso-porous MOFs as a new photosynthesis platform. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 14911-14919	13	6
692	Photocatalytic Hydrogen Generation from Water-Annealed TiO ₂ Nanotubes with White and Grey Modification. <i>ChemElectroChem</i> , 2021 , 8, 240-245	4.3	5
691	Self-assembly and activation of a titania-nanotube based photocatalyst for H ₂ evolution. <i>Chemical Communications</i> , 2021 , 57, 7120-7123	5.8	1
690	Photoelectrochemical performance of facet-controlled TiO ₂ nanosheets grown hydrothermally on FTO. <i>Nanoscale Advances</i> , 2021 , 3, 747-754	5.1	5
689	A drastic improvement in photocatalytic H ₂ production by TiO ₂ nanosheets grown directly on TaO ₃ substrates. <i>Nanoscale</i> , 2021 , 13, 12750-12756	7.7	1
688	Improvement of polymer properties for powder bed fusion by combining in situ PECVD nanoparticle synthesis and dry coating. <i>Plasma Processes and Polymers</i> , 2021 , 18, 2000247	3.4	2
687	Light-Induced Migration of Spin Defects in TiO ₂ Nanosystems and their Contribution to the H ₂ Evolution Catalysis from Water. <i>ChemSusChem</i> , 2021 , 14, 4408-4414	8.3	3
686	Facile Approach of Direct Sulfidation of FTO to Form Vertically Aligned SnS ₂ Nanoflake Photoanodes for Efficient Photoelectrochemical Water Splitting. <i>ACS Applied Energy Materials</i> , 2021 , 4, 8395-8400	6.1	1
685	As a single atom Pd outperforms Pt as the most active co-catalyst for photocatalytic H ₂ evolution. <i>IScience</i> , 2021 , 24, 102938	6.1	8
684	Uncovering the Role of Trioctylphosphine on Colloidal and Emission Stability of Sb-Alloyed CsNaiInCl Double Perovskite Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 47845-47859	9.5	7
683	Self-assembly of a Ni(II)-photocatalyst for plain water splitting without sacrificial agents. <i>Electrochemistry Communications</i> , 2021 , 122, 106909	5.1	2
682	Voltage-Switchable Biosensor with Gold Nanoparticles on TiO ₂ Nanotubes Decorated with CdS Quantum Dots for the Detection of Cholesterol and HO ₂ . <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 3653-3668	9.5	24
681	A long-term stable aqueous aluminum battery electrode based on one-dimensional molybdenum-tantalum oxide nanotube arrays. <i>Nanoscale</i> , 2021 , 13, 6087-6095	7.7	4
680	Water Annealing of TiO ₂ Nanotubes for Photocatalysis Revisited. <i>ChemElectroChem</i> , 2020 , 7, 2792-2796	4.3	9

679	Hierarchical Anodic TiO ₂ Nanostructures Formed in Ethylene Glycol/o-H ₃ PO ₄ Electrolytes for Direct Photocatalysis. <i>ChemElectroChem</i> , 2020 , 7, 2859-2863	4.3	2
678	Alkali Metal Cation Incorporation in Conductive TiO ₂ Nanoflakes with Improved Photoelectrochemical H ₂ Generation. <i>ChemElectroChem</i> , 2020 , 7, 1699-1706	4.3	3
677	Establishing High Photocatalytic H ₂ Evolution from Multiwalled Titanate Nanotubes. <i>ChemCatChem</i> , 2020 , 12, 2951-2956	5.2	8
676	Less known facts and findings about TiO nanotubes. <i>Nanoscale</i> , 2020 , 12, 8119-8132	7.7	30
675	Multi-Leg TiO ₂ Nanotube Photoelectrodes Modified by Platinized Cyanographene with Enhanced Photoelectrochemical Performance. <i>Catalysts</i> , 2020 , 10, 717	4	4
674	An Operando X-ray Absorption Spectroscopy Study of a NiCu/TiO ₂ Photocatalyst for H ₂ Evolution. <i>ACS Catalysis</i> , 2020 , 10, 8293-8302	13.1	25
673	On the Controlled Loading of Single Platinum Atoms as a Co-Catalyst on TiO Anatase for Optimized Photocatalytic H Generation. <i>Advanced Materials</i> , 2020 , 32, e1908505	24	100
672	Anodic nanoporous niobium oxide layers grown in pure molten ortho-phosphoric acid. <i>Electrochimica Acta</i> , 2020 , 344, 136158	6.7	12
671	Photoelectrochemical properties of increasingly dark TiO ₂ nanotube arrays. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 872, 114098	4.1	10
670	Optimized Polymer Electrolyte Membrane Fuel Cell Electrode Using TiO ₂ Nanotube Arrays with Well-Defined Spacing. <i>ACS Applied Nano Materials</i> , 2020 , 3, 4157-4170	5.6	5
669	Drug Delivery Systems Based on Titania Nanotubes and Active Agents for Enhanced Osseointegration of Bone Implants. <i>Current Medicinal Chemistry</i> , 2020 , 27, 854-902	4.3	12
668	Self-Organizing Anodization in Pure Molten Ortho-Phosphoric Acid: Nanoporous Niobium Oxide Layers. <i>ECS Meeting Abstracts</i> , 2020 , MA2020-01, 2831-2831	0	
667	Engineering of the Electron Transport Layer/Perovskite Interface in Solar Cells Designed on TiO ₂ Rutile Nanorods. <i>Advanced Functional Materials</i> , 2020 , 30, 1909738	15.6	30
666	Effects of low oxygen annealing on the photoelectrochemical water splitting properties of Fe ₂ O ₃ . <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1315-1325	13	27
665	Promoting the hydrogen evolution reaction through oxygen vacancies and phase transformation engineering on layered double hydroxide nanosheets. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 2490-2497	13	79
664	Novel highly active and self-healing Co(CO ₃)xOH _y cocatalysts on BiVO ₄ photoanodes for effective solar water oxidation. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 2563-2570	13	26
663	Influence of Ti ³⁺ defect-type on heterogeneous photocatalytic H ₂ evolution activity of TiO ₂ . <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1432-1442	13	45
662	Li ⁺ Pre-Insertion Leads to Formation of Solid Electrolyte Interface on TiO ₂ Nanotubes That Enables High-Performance Anodes for Sodium Ion Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 1903448	21.8	20

661	Upconversion Nanoparticle-Assisted Payload Delivery from TiO under Near-Infrared Light Irradiation for Bacterial Inactivation. <i>ACS Nano</i> , 2020 , 14, 337-346	16.7	50
660	FeO-based nanostructures and nanohybrids for photoelectrochemical water splitting. <i>Progress in Materials Science</i> , 2020 , 110, 100632	42.2	33
659	Activation of Fe O for Photoelectrochemical Water Splitting Strongly Enhanced by Low Temperature Annealing in Low Oxygen Containing Ambient. <i>Chemistry - A European Journal</i> , 2020 , 26, 2685-2692	4.8	23
658	A Dewetted-Dealloyed Nanoporous Pt Co-Catalyst Formed on TiO Nanotube Arrays Leads to Strongly Enhanced Photocatalytic H Production. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 301-309	4.5	18
657	Fabrication of ideally ordered TiO through-hole membranes by two-layer anodization.. <i>RSC Advances</i> , 2020 , 10, 37657-37661	3.7	4
656	High-performance hydrogen evolution electrocatalysis using proton-intercalated TiO ₂ nanotube arrays as interactive supports for Ir nanoparticles. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 22773-22790 ¹³		17
655	Morphology and Optical Properties of Highly Ordered TiO ₂ Nanotubes Grown in NH ₄ F/o-H ₃ PO ₄ Electrolytes in View of Light-Harvesting and Catalytic Applications. <i>ACS Applied Nano Materials</i> , 2020 , 3, 10646-10658	5.6	9
654	Thermal-Oxidative Growth of Substoichiometric WO _{3-x} Nanowires at Mild Conditions. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020 , 14, 2000235	2.5	11
653	Long-Living Holes in Grey Anatase TiO ₂ Enable Noble-Metal-Free and Sacrificial-Agent-Free Water Splitting. <i>ChemSusChem</i> , 2020 , 13, 4937-4944	8.3	8
652	A High-Field Anodic NiO Nanosponge with Tunable Thickness for Application in p-Type Dye-Sensitized Solar Cells. <i>ACS Applied Energy Materials</i> , 2020 , 3, 7865-7872	6.1	4
651	Dewetting of PtCu Nanoalloys on TiO Nanocavities Provides a Synergistic Photocatalytic Enhancement for Efficient H Evolution. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 38211-38221	9.5	15
650	Light-induced In-situ Ti ³⁺ Formation in TiO ₂ Nanosheets for Photocatalytic Hydrogen Evolution. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 908, 012001	0.4	1
649	Development of non-enzymatic cholesterol bio-sensor based on TiO ₂ nanotubes decorated with Cu ₂ O nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2020 , 302, 127200	8.5	39
648	Photo-Electrochemical Solar-to-Fuel Energy Conversion by Hematite-Based Photo-Anodes □The Role of 1D Nanostructuring. <i>Zeitschrift Fur Physikalische Chemie</i> , 2020 , 234, 615-631	3.1	6
647	One-dimensional TiO ₂ nanotubeBased photocatalysts: enhanced performance by site-selective decoration. <i>Interface Science and Technology</i> , 2020 , 31, 231-264	2.3	
646	Solar Thermoplasmonic Nanofurnace for High-Temperature Heterogeneous Catalysis. <i>Nano Letters</i> , 2020 , 20, 3663-3672	11.5	20
645	Anodic Titanium Dioxide Nanotubes for Magnetically Guided Therapeutic Delivery. <i>Scientific Reports</i> , 2019 , 9, 13439	4.9	15
644	Lateral Spacing of TiO Nanotubes Modulates Osteoblast Behavior. <i>Materials</i> , 2019 , 12,	3.5	16

643	Black and white anatase, rutile and mixed forms: band-edges and photocatalytic activity. <i>Chemical Communications</i> , 2019 , 55, 533-536	5.8	25
642	Photocatalytic reduction and scavenging of Hg(II) over templated-dewetted Au on TiO ₂ nanotubes. <i>Photochemical and Photobiological Sciences</i> , 2019 , 18, 1046-1055	4.2	12
641	Critical Factors in the Anodic Formation of Extremely Ordered Titania Nanocavities. <i>Journal of the Electrochemical Society</i> , 2019 , 166, C3389-C3398	3.9	12
640	Sulfur and Ti co-Doping of TiO ₂ Nanotubes Enhance Photocatalytic H ₂ Evolution Without the Use of Any co-catalyst. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 2724-2730	4.5	5
639	Dewetted Au Nanoparticles on TiO ₂ Surfaces: Evidence of a Size-Independent Plasmonic Photoelectrochemical Response. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 16934-16942	3.8	18
638	Composition Gradients in Sputtered Ti _{1-x} Au _x Alloys: Site-Selective Au Decoration of Anodic TiO ₂ Nanotubes for Photocatalytic H ₂ Evolution. <i>ACS Applied Nano Materials</i> , 2019 , 2, 4018-4025	5.6	12
637	Easy Room Temperature Synthesis of High Surface Area Anatase Nanowires with Different Morphologies. <i>ChemistryOpen</i> , 2019 , 8, 817-821	2.3	1
636	Magn ²⁺ -Phases in Anatase Strongly Promote Cocatalyst-Free Photocatalytic Hydrogen Evolution. <i>ACS Catalysis</i> , 2019 , 9, 3627-3632	13.1	27
635	Self-Enhancing H ₂ Evolution from TiO ₂ Nanostructures under Illumination. <i>ChemSusChem</i> , 2019 , 12, 1900-1905	13.9	25
634	Intracellular Drug Delivery with Anodic Titanium Dioxide Nanotubes and Nanocylinders. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 14980-14985	9.5	16
633	Anodic Synthesis of Hierarchical SnS/SnO ₂ Hollow Nanospheres and Their Application for High-Performance Na-Ion Batteries. <i>Advanced Functional Materials</i> , 2019 , 29, 1901000	15.6	32
632	Fe ₂ O ₃ Blocking Layer Produced by Cyclic Voltammetry Leads to Improved Photoelectrochemical Performance of Hematite Nanorods. <i>Surfaces</i> , 2019 , 2, 131-144	2.9	8
631	Conductive Cu-Doped TiO ₂ Nanotubes for Enhanced Photoelectrochemical Methanol Oxidation and Concomitant Hydrogen Generation. <i>ChemElectroChem</i> , 2019 , 6, 1244-1249	4.3	10
630	Electrochemically Faceted Bamboo-type TiO ₂ Nanotubes Provide Enhanced Open-Circuit Hydrogen Evolution. <i>ChemElectroChem</i> , 2019 , 6, 114-120	4.3	5
629	Boron-Doped Diamond as an Efficient Back Contact to Thermally Grown TiO ₂ Photoelectrodes. <i>ChemElectroChem</i> , 2019 , 6, 4545-4549	4.3	2
628	Black TiO ₂ nanotubes: Efficient electrodes for triggering electric field-induced stimulation of stem cell growth. <i>Acta Biomaterialia</i> , 2019 , 97, 681-688	10.8	6
627	Providing significantly enhanced photocatalytic H ₂ generation using porous PtPdAg alloy nanoparticles on spaced TiO ₂ nanotubes. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 22962-22971	6.7	22
626	Easy Room Temperature Synthesis of High Surface Area Anatase Nanowires with Different Morphologies. <i>ChemistryOpen</i> , 2019 , 8, 813	2.3	

625	Effect of different hole scavengers on the photoelectrochemical properties and photocatalytic hydrogen evolution performance of pristine and Pt-decorated TiO ₂ nanotubes. <i>Electrochimica Acta</i> , 2019 , 319, 61-71	6.7	40
624	Post treatments effect on TiZr nanostructures fabricated via anodizing. <i>Journal of Materials Research and Technology</i> , 2019 , 8, 5802-5812	5.5	7
623	Amorphous Mo-Ta Oxide Nanotubes for Long-Term Stable Mo Oxide-Based Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 45665-45673	9.5	7
622	Photocatalytic H ₂ Evolution: Dealloying as Efficient Tool for the Fabrication of Rh-decorated TiO ₂ Nanotubes. <i>ChemCatChem</i> , 2019 , 11, 6258-6262	5.2	11
621	Radiative and Non-Radiative Recombination Pathways in Mixed-Phase TiO ₂ Nanotubes for PEC Water-Splitting. <i>Catalysts</i> , 2019 , 9, 204	4	25
620	Magn η Phases Doped with Pt for Photocatalytic Hydrogen Evolution. <i>ACS Applied Energy Materials</i> , 2019 , 2, 8399-8404	6.1	6
619	Dye-sensitized TiO ₂ nanotube membranes act as a visible-light switchable diffusion gate. <i>Nanoscale Advances</i> , 2019 , 1, 4844-4852	5.1	2
618	Ordered Nanotubular Titanium Disulfide (TiS ₂) Structures: Synthesis and Use as Counter Electrodes in Dye Sensitized Solar Cells (DSSCs). <i>Journal of the Electrochemical Society</i> , 2019 , 166, H3009-H3013	3.9	10
617	Intrinsic Au-decoration on anodic TiO ₂ nanotubes grown from metastable Ti η Au sputtered alloys High density co-catalyst decoration enhances the photocatalytic H ₂ evolution. <i>Applied Materials Today</i> , 2019 , 14, 118-125	6.6	16
616	Photocatalysis with Reduced TiO: From Black TiO to Cocatalyst-Free Hydrogen Production. <i>ACS Catalysis</i> , 2019 , 9, 345-364	13.1	295
615	Intrinsic Cu nanoparticle decoration of TiO ₂ nanotubes: A platform for efficient noble metal free photocatalytic H ₂ production. <i>Electrochemistry Communications</i> , 2019 , 98, 82-86	5.1	21
614	TiO nanotubes with different spacing, FeO decoration and their evaluation for Li-ion battery application. <i>Nanotechnology</i> , 2018 , 29, 195402	3.4	19
613	Depth elemental characterization of 1D self-aligned TiO ₂ nanotubes using calibrated radio frequency glow discharge optical emission spectroscopy (GDOES). <i>Applied Surface Science</i> , 2018 , 442, 412-416	6.7	17
612	Critical parameters and factors in the formation of spaced TiO ₂ nanotubes by self-organizing anodization. <i>Electrochimica Acta</i> , 2018 , 268, 435-447	6.7	46
611	Sb-Doped SnO Nanorods Underlayer Effect to the Fe O Nanorods Sheathed with TiO for Enhanced Photoelectrochemical Water Splitting. <i>Small</i> , 2018 , 14, e1703860	11	46
610	Hematite Photoanode with Complex Nanoarchitecture Providing Tunable Gradient Doping and Low Onset Potential for Photoelectrochemical Water Splitting. <i>ChemSusChem</i> , 2018 , 11, 1873-1879	8.3	25
609	Metal-Phosphate Bilayers for Anatase Surface Modification. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 6661-6672	9.5	8
608	Spaced Titania Nanotube Arrays Allow the Construction of an Efficient N-Doped Hierarchical Structure for Visible-Light Harvesting. <i>ChemistryOpen</i> , 2018 , 7, 131-135	2.3	3

607	Templated Dewetting Alloying of NiCu Bilayers on TiO ₂ Nanotubes Enables Efficient Noble-Metal-Free Photocatalytic H ₂ Evolution. <i>ACS Catalysis</i> , 2018 , 8, 5298-5305	13.1	50
606	Incorporation of bioactive glass nanoparticles in electrospun PCL/chitosan fibers by using benign solvents. <i>Bioactive Materials</i> , 2018 , 3, 55-63	16.7	72
605	A direct synthesis of platinum/nickel co-catalysts on titanium dioxide nanotube surface from hydrometallurgical-type process streams. <i>Journal of Cleaner Production</i> , 2018 , 201, 39-48	10.3	21
604	TiO ₂ Nanotubes on Transparent Substrates: Control of Film Microstructure and Photoelectrochemical Water Splitting Performance. <i>Catalysts</i> , 2018 , 8, 25	4	11
603	Forming a Highly Active, Homogeneously Alloyed AuPt Co-catalyst Decoration on TiO Nanotubes Directly During Anodic Growth. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 18220-18226	9.5	29
602	Intrinsically Activated SrTiO: Photocatalytic H Evolution from Neutral Aqueous Methanol Solution in the Absence of Any Noble Metal Cocatalyst. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 29532-29542	9.5	32
601	Capacitance response in an aqueous electrolyte of Nb ₂ O ₅ nanochannel layers anodically grown in pure molten o-H ₃ PO ₄ . <i>Electrochimica Acta</i> , 2018 , 281, 725-737	6.7	15
600	Nanostar morphology of plasmonic particles strongly enhances photoelectrochemical water splitting of TiO ₂ nanorods with superior incident photon-to-current conversion efficiency in visible/near-infrared region. <i>Electrochimica Acta</i> , 2018 , 260, 212-220	6.7	33
599	A Cocatalytic Electron-Transfer Cascade Site-Selectively Placed on TiO ₂ Nanotubes Yields Enhanced Photocatalytic H ₂ Evolution. <i>Advanced Functional Materials</i> , 2018 , 28, 1704259	15.6	68
598	Uniform ALD deposition of Pt nanoparticles within 1D anodic TiO ₂ nanotubes for photocatalytic H ₂ generation. <i>Electrochemistry Communications</i> , 2018 , 86, 6-11	5.1	35
597	Efficient Preparation Process for TiO ₂ Through-Hole Membranes with Ordered Hole Arrangements. <i>Journal of the Electrochemical Society</i> , 2018 , 165, E763-E767	3.9	3
596	Photoelectrocatalytic oxidation of As(III) over hematite photoanodes: A sensible indicator of the presence of highly reactive surface sites. <i>Electrochimica Acta</i> , 2018 , 292, 828-837	6.7	9
595	Optimized Spacing between TiO ₂ Nanotubes for Enhanced Light Harvesting and Charge Transfer. <i>ChemElectroChem</i> , 2018 , 5, 3183-3190	4.3	15
594	Intrinsic AuPt-alloy particles decorated on TiO ₂ nanotubes provide enhanced photocatalytic degradation. <i>Electrochimica Acta</i> , 2018 , 292, 865-870	6.7	17
593	Spaced TiO Nanotubes Enable Optimized Pt Atomic Layer Deposition for Efficient Photocatalytic H Generation. <i>ChemistryOpen</i> , 2018 , 7, 797-802	2.3	10
592	Inducing a Nanotwinned Grain Structure within the TiO ₂ Nanotubes Provides Enhanced Electron Transport and DSSC Efficiencies >10%. <i>Advanced Energy Materials</i> , 2018 , 8, 1800981	21.8	30
591	Tunable Transformation Between SnS and SnOx Nanostructures via Facile Anodization and Their Photoelectrochemical and Photocatalytic Performance. <i>Solar Rrl</i> , 2018 , 2, 1800161	7.1	7
590	Hematite dodecahedron crystals with high-index facets grown and grafted on one dimensional structures for efficient photoelectrochemical H ₂ generation. <i>Nano Energy</i> , 2018 , 50, 331-338	17.1	19

589	Site-selective Pt dewetting on WO ₃ -coated TiO ₂ nanotube arrays: An electron transfer cascade-based H ₂ evolution photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2018 , 237, 198-205	21.8	65
588	Anodic TiO ₂ nanotubes decorated by Pt nanoparticles using ALD: An efficient electrocatalyst for methanol oxidation. <i>Journal of Catalysis</i> , 2018 , 365, 86-93	7.3	32
587	Nanoporous AuPt and AuPtAg alloy co-catalysts formed by dewetting-dealloying on an ordered TiO ₂ nanotube surface lead to significantly enhanced photocatalytic H ₂ generation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 13599-13606	13	26
586	Highly Conducting Spaced TiO Nanotubes Enable Defined Conformal Coating with Nanocrystalline Nb O and High Performance Supercapacitor Applications. <i>Small</i> , 2017 , 13, 1603821	11	53
585	The double-walled nature of TiO ₂ nanotubes and formation of tube-in-tube structures: characterization of different tube morphologies. <i>Electrochimica Acta</i> , 2017 , 231, 721-731	6.7	25
584	Fast growth of TiO ₂ nanotube arrays with controlled tube spacing based on a self-ordering process at two different scales. <i>Electrochemistry Communications</i> , 2017 , 77, 98-102	5.1	31
583	On the Supercapacitive Behaviour of Anodic Porous WO ₃ -Based Negative Electrodes. <i>Electrochimica Acta</i> , 2017 , 232, 192-201	6.7	42
582	Alternating Current Electrophoretic Deposition for the Immobilization of Antimicrobial Agents on Titanium Implant Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8533-8546	9.5	16
581	Noble metal free photocatalytic H ₂ generation on black TiO ₂ : On the influence of crystal facets vs. crystal damage. <i>Applied Physics Letters</i> , 2017 , 110, 072102	3.4	12
580	Photoanodes based on TiO and FeO for solar water splitting - superior role of 1D nanoarchitectures and of combined heterostructures. <i>Chemical Society Reviews</i> , 2017 , 46, 3716-3769	58.5	385
579	Enhanced Solar Water Splitting by Swift Charge Separation in Au/FeOOH Sandwiched Single-Crystalline Fe O Nanoflake Photoelectrodes. <i>ChemSusChem</i> , 2017 , 10, 2720-2727	8.3	46
578	Hydrogen-treated hierarchical titanium oxide nanostructures for photoelectrochemical water splitting. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 169, 19-27	6.4	30
577	Optimizing TiO ₂ nanotube morphology for enhanced photocatalytic H ₂ evolution using single-walled and highly ordered TiO ₂ nanotubes decorated with dewetted Au nanoparticles. <i>Electrochemistry Communications</i> , 2017 , 79, 46-50	5.1	28
576	Double-Side Co-Catalytic Activation of Anodic TiO Nanotube Membranes with Sputter-Coated Pt for Photocatalytic H Generation from Water/Methanol Mixtures. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 314-323	4.5	12
575	Self-organized, free-standing TiO ₂ nanotube membranes: Effect of surface electrokinetic properties on flow-through membranes. <i>Electrochimica Acta</i> , 2017 , 245, 25-31	6.7	9
574	Electrical transport properties of polycrystalline and amorphous TiO ₂ single nanotubes. <i>Nano Structures Nano Objects</i> , 2017 , 10, 51-56	5.6	7
573	Plasmon-induced hole-depletion layer on hematite nanoflake photoanodes for highly efficient solar water splitting. <i>Nano Energy</i> , 2017 , 35, 171-178	17.1	74
572	Photocatalysis with TiO ₂ Nanotubes: Colorful Reactivity and Designing Site-Specific Photocatalytic Centers into TiO ₂ Nanotubes. <i>ACS Catalysis</i> , 2017 , 7, 3210-3235	13.1	180

571	Black Magic in Gray Titania: Noble-Metal-Free Photocatalytic H Evolution from Hydrogenated Anatase. <i>ChemSusChem</i> , 2017 , 10, 62-67	8.3	47
570	Spaced TiO ₂ nanotube arrays allow for a high performance hierarchical supercapacitor structure. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 1895-1901	13	52
569	Activity of vancomycin release from bioinspired coatings of hydroxyapatite or TiO nanotubes. <i>International Journal of Pharmaceutics</i> , 2017 , 517, 296-302	6.5	42
568	Synthesis of free-standing TaN nanotube membranes and flow-through visible light photocatalytic applications. <i>Chemical Communications</i> , 2017 , 53, 11763-11766	5.8	11
567	Hematite Photoanodes: Synergetic Enhancement of Light Harvesting and Charge Management by Sandwiched with Fe ₂ TiO ₅ /Fe ₂ O ₃ /Pt Structures. <i>Advanced Functional Materials</i> , 2017 , 27, 1703527	15.6	66
566	Could Titanium Dioxide Nanotubes Represent a Viable Support System for Appropriate Cells in Vascular Implants?. <i>Advances in Biomembranes and Lipid Self-Assembly</i> , 2017 , 25, 1-39	1	4
565	Optimized FTO seeding enables the growth of highly efficient Ta-doped TiO nanorod photoanodes. <i>Chemical Communications</i> , 2017 , 53, 10050-10053	5.8	7
564	Semimetallic core-shell TiO ₂ nanotubes as a high conductivity scaffold and use in efficient 3D-RuO ₂ supercapacitors. <i>Materials Today Energy</i> , 2017 , 6, 46-52	7	31
563	Large-Diameter TiO Nanotubes Enable Wall Engineering with Conformal Hierarchical Decoration and Blocking Layers for Enhanced Efficiency in Dye-Sensitized Solar Cells (DSSC). <i>Chemistry - A European Journal</i> , 2017 , 23, 12995-12999	4.8	18
562	Molybdenum dichalcogenide nanotube arrays for hydrogen-evolution-reaction catalysis: Synergistic effects of sulfur and selenium in a core-shell tube wall. <i>Electrochemistry Communications</i> , 2017 , 82, 112-116	5.1	8
561	Tuning Anatase Surface Reactivity toward Carboxylic Acid Anchor Groups. <i>Langmuir</i> , 2017 , 33, 13913-13922	4.2	5
560	Anodic TiO ₂ nanotube membranes: Site-selective Pt-activation and photocatalytic H ₂ evolution. <i>Electrochimica Acta</i> , 2017 , 258, 302-310	6.7	21
559	A generic interface to reduce the efficiency-stability-cost gap of perovskite solar cells. <i>Science</i> , 2017 , 358, 1192-1197	33.3	418
558	Photoelectrochemical H Generation from Suboxide TiO Nanotubes: Visible-Light Absorption versus Conductivity. <i>Chemistry - A European Journal</i> , 2017 , 23, 12406-12411	4.8	36
557	FeO/TiO 3D hierarchical nanostructures for enhanced photoelectrochemical water splitting. <i>Nanoscale</i> , 2017 , 9, 134-142	7.7	85
556	Overcoming Interfacial Losses in Solution-Processed Organic Multi-Junction Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1601959	21.8	34
555	Reactivity of TiO ₂ Nanotube-Supported Platinum Particles in the CO Oxidation Reaction. <i>ChemCatChem</i> , 2017 , 9, 564-572	5.2	8
554	Self-organized transparent 1D TiO ₂ nanotubular photoelectrodes grown by anodization of sputtered and evaporated Ti layers: A comparative photoelectrochemical study. <i>Chemical Engineering Journal</i> , 2017 , 308, 745-753	14.7	26

553	Aminated TiO ₂ nanotubes as a photoelectrochemical water splitting photoanode. <i>Catalysis Today</i> , 2017 , 281, 189-197	5.3	28
552	Noble-Metal-Free Photocatalytic Hydrogen Evolution Activity: The Impact of Ball Milling Anatase Nanopowders with TiH. <i>Advanced Materials</i> , 2017 , 29, 1604747	24	51
551	Tantalum nitride nanotube photoanodes: Establishing a beneficial back-contact by lift-off and transfer to titanium nitride layer. <i>Electrochemistry Communications</i> , 2016 , 72, 27-31	5.1	4
550	Carbon-Decorated TiO ₂ Nanotube Membranes: A Renewable Nanofilter for Charge-Selective Enrichment of Proteins. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 21997-2004	9.5	15
549	Robust free standing flow-through TiO ₂ nanotube membranes of pure anatase. <i>Electrochemistry Communications</i> , 2016 , 71, 73-78	5.1	23
548	Fabrication of ideally ordered anodic porous TiO ₂ by anodization of pretextured two-layered metals. <i>Electrochemistry Communications</i> , 2016 , 72, 100-103	5.1	13
547	Electric Field-Induced Osteogenic Differentiation on TiO ₂ Nanotubular Layer. <i>Tissue Engineering - Part C: Methods</i> , 2016 , 22, 809-21	2.9	15
546	Noble-Metal-Free Photocatalytic H ₂ Generation: Active and Inactive 'Black' TiO ₂ Nanotubes and Synergistic Effects. <i>Chemistry - A European Journal</i> , 2016 , 22, 13810-13814	4.8	38
545	A Facile Surface Passivation of Hematite Photoanodes with Iron Titanate Cocatalyst for Enhanced Water Splitting. <i>ChemSusChem</i> , 2016 , 9, 2048-53	8.3	27
544	Thin MoS ₂ on TiO ₂ nanotube layers: An efficient co-catalyst/harvesting system for photocatalytic H ₂ evolution. <i>Electrochemistry Communications</i> , 2016 , 73, 33-37	5.1	30
543	Visible-Light-Triggered Drug Release from TiO ₂ Nanotube Arrays: A Controllable Antibacterial Platform. <i>Angewandte Chemie</i> , 2016 , 128, 603-607	3.6	18
542	TiO ₂ Nanotubes: Nitrogen-Ion Implantation at Low Dose Provides Noble-Metal-Free Photocatalytic H ₂ -Evolution Activity. <i>Angewandte Chemie</i> , 2016 , 128, 3827-3831	3.6	22
541	Visible-Light-Triggered Drug Release from TiO ₂ Nanotube Arrays: A Controllable Antibacterial Platform. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 593-7	16.4	72
540	TiO ₂ Nanotubes: Nitrogen-Ion Implantation at Low Dose Provides Noble-Metal-Free Photocatalytic H ₂ -Evolution Activity. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 3763-7	16.4	102
539	Free-Standing Membranes to Study the Optical Properties of Anodic TiO ₂ Nanotube Layers. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 789-97	4.5	25
538	Controlled spacing of self-organized anodic TiO ₂ nanotubes. <i>Electrochemistry Communications</i> , 2016 , 69, 76-79	5.1	30
537	High-temperature annealing of TiO ₂ nanotube membranes for efficient dye-sensitized solar cells. <i>Semiconductor Science and Technology</i> , 2016 , 31, 014010	1.8	21
536	Self-induced current oscillations during anodization of Ti in LA containing DMSO electrolyte. <i>Electrochemistry Communications</i> , 2016 , 65, 18-22	5.1	8

535	Influence of various sterilization procedures on TiO ₂ nanotubes used for biomedical devices. <i>Bioelectrochemistry</i> , 2016 , 109, 79-86	5.6	36
534	Key factors for an improved lithium ion storage capacity of anodic TiO ₂ nanotubes. <i>Electrochimica Acta</i> , 2016 , 198, 56-65	6.7	21
533	Key Oxidation Parameters that Influence Photo-Induced Properties and Applications of Anodic Titanium Oxides. <i>Journal of the Electrochemical Society</i> , 2016 , 163, H119-H127	3.9	2
532	Corrosion, antibacterial activity and haemocompatibility of TiO ₂ nanotubes as a function of their annealing temperature. <i>Corrosion Science</i> , 2016 , 103, 215-222	6.8	63
531	Influence Of Anodization Parameters On Morphology Of TiO ₂ Nanostructured Surfaces. <i>Advanced Materials Letters</i> , 2016 , 7, 23-28	2.4	51
530	Graphitic C ₃ N ₄ -Sensitized TiO ₂ Nanotube Layers: A Visible-Light Activated Efficient Metal-Free Antimicrobial Platform. <i>Chemistry - A European Journal</i> , 2016 , 22, 3947-51	4.8	57
529	Strongly Enhanced Water Splitting Performance of Ta ₃ N ₅ Nanotube Photoanodes with Subnitrides. <i>Advanced Materials</i> , 2016 , 28, 2432-8	24	92
528	Noble Metals on Anodic TiO ₂ Nanotube Mouths: Thermal Dewetting of Minimal Pt Co-Catalyst Loading Leads to Significantly Enhanced Photocatalytic H ₂ Generation. <i>Advanced Energy Materials</i> , 2016 , 6, 1501926	21.8	66
527	Binding of human coronary artery endothelial cells to plasma-treated titanium dioxide nanotubes of different diameters. <i>Journal of Biomedical Materials Research - Part A</i> , 2016 , 104, 1113-20	5.4	13
526	Anodic TiO ₂ nanotube arrays directly grown on quartz glass used in front- and back-side irradiation configuration for photocatalytic H ₂ generation. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 2733-2740	1.6	8
525	Photocatalytic H ₂ Generation Using Dewetted Pt-Decorated TiO ₂ Nanotubes: Optimized Dewetting and Oxide Crystallization by a Multiple Annealing Process. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 15884-15892	3.8	39
524	Aligned metal oxide nanotube arrays: key-aspects of anodic TiO nanotube formation and properties. <i>Nanoscale Horizons</i> , 2016 , 1, 445-466	10.8	97
523	Polydopamine-Coated TiO ₂ Nanotubes for Selective Photocatalytic Oxidation of Benzyl Alcohol to Benzaldehyde Under Visible Light. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 5353-8	1.3	11
522	Protein interactions with layers of TiO nanotube and nanopore arrays: Morphology and surface charge influence. <i>Acta Biomaterialia</i> , 2016 , 45, 357-366	10.8	77
521	Aligned MoO _x /MoS ₂ Core-Shell Nanotubular Structures with a High Density of Reactive Sites Based on Self-Ordered Anodic Molybdenum Oxide Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 12252-6	16.4	83
520	TiO nanotubes with laterally spaced ordering enable optimized hierarchical structures with significantly enhanced photocatalytic H generation. <i>Nanoscale</i> , 2016 , 8, 16868-16873	7.7	25
519	Aligned MoO _x /MoS ₂ Core-Shell Nanotubular Structures with a High Density of Reactive Sites Based on Self-Ordered Anodic Molybdenum Oxide Nanotubes. <i>Angewandte Chemie</i> , 2016 , 128, 12440-12444	26	7
518	Templated dewetting: designing entirely self-organized platforms for photocatalysis. <i>Chemical Science</i> , 2016 , 7, 6865-6886	9.4	72

517	Pt-Decorated g-CN/TiO Nanotube Arrays with Enhanced Visible-Light Photocatalytic Activity for H ₂ Evolution. <i>ChemistryOpen</i> , 2016 , 5, 197-200	2.3	22
516	Photoanodes with Fully Controllable Texture: The Enhanced Water Splitting Efficiency of Thin Hematite Films Exhibiting Solely (110) Crystal Orientation. <i>ACS Nano</i> , 2015 , 9, 7113-23	16.7	85
515	Extracting the limiting factors in photocurrent measurements on TiO ₂ nanotubes and enhancing the photoelectrochemical properties by Nb doping. <i>Electrochimica Acta</i> , 2015 , 176, 819-826	6.7	24
514	Nanochannels formed on TiZr alloy improve biological response. <i>Acta Biomaterialia</i> , 2015 , 24, 370-7	10.8	25
513	Efficient Photocatalytic H ₂ Evolution: Controlled Dewetting-Dealloying to Fabricate Site-Selective High-Activity Nanoporous Au Particles on Highly Ordered TiO ₂ Nanotube Arrays. <i>Advanced Materials</i> , 2015 , 27, 3208-15	24	116
512	Anodic self-organized transparent nanotubular/porous hematite films from Fe thin-films sputtered on FTO and photoelectrochemical water splitting. <i>Research on Chemical Intermediates</i> , 2015 , 41, 9333-9341	2.8	15
511	Use of Anodic TiO ₂ Nanotube Layers as Mesoporous Scaffolds for Fabricating CH ₃ NH ₃ PbI ₃ Perovskite-Based Solid-State Solar Cells. <i>ChemElectroChem</i> , 2015 , 2, 824-828	4.3	32
510	Molten o-H ₃ PO ₄ : A New Electrolyte for the Anodic Synthesis of Self-Organized Oxide Structures--WO ₃ Nanochannel Layers and Others. <i>Journal of the American Chemical Society</i> , 2015 , 137, 5646-9	16.4	37
509	Topographical study of TiO ₂ nanostructure surface for photocatalytic hydrogen production. <i>Electrochimica Acta</i> , 2015 , 179, 423-430	6.7	22
508	Protein interactions with corroding metal surfaces: comparison of Mg and Fe. <i>Faraday Discussions</i> , 2015 , 180, 347-60	3.6	40
507	Tantalum Nitride Nanorod Arrays: Introducing NiFe Layered Double Hydroxides as a Cocatalyst Strongly Stabilizing Photoanodes in Water Splitting. <i>Chemistry of Materials</i> , 2015 , 27, 2360-2366	9.6	143
506	Carbon clad TiO ₂ nanotubes: fabrication and use in 3D-RuO ₂ based supercapacitors. <i>Chemical Communications</i> , 2015 , 51, 7614-7	5.8	38
505	Open top anodic Ta ₃ N ₅ nanotubes for higher solar water splitting efficiency. <i>Electrochimica Acta</i> , 2015 , 182, 803-808	6.7	14
504	Adherence of oral streptococci to nanostructured titanium surfaces. <i>Dental Materials</i> , 2015 , 31, 1460-8	5.7	59
503	Controlling the diameter of aligned single-walled carbon nanotubes on quartz via catalyst reduction time. <i>Carbon</i> , 2015 , 95, 452-459	10.4	18
502	"Black" TiO ₂ Nanotubes Formed by High-Energy Proton Implantation Show Noble-Metal-co-Catalyst Free Photocatalytic H ₂ -Evolution. <i>Nano Letters</i> , 2015 , 15, 6815-20	11.5	152
501	Enhanced performance of dye-sensitized solar cells based on TiO ₂ nanotube membranes using an optimized annealing profile. <i>Chemical Communications</i> , 2015 , 51, 1631-4	5.8	50
500	Comparison of Anodic TiO ₂ -Nanotube Membranes used for Frontside-Illuminated Dye-Sensitized Solar Cells. <i>ChemElectroChem</i> , 2015 , 2, 204-207	4.3	15

499	Fast fabrication of Ta ₂ O ₅ nanotube arrays and their conversion to Ta ₃ N ₅ for efficient solar driven water splitting. <i>Electrochemistry Communications</i> , 2015 , 50, 15-19	5.1	38
498	Direct alcohol fuel cells: Increasing platinum performance by modification with sp-group metals. <i>Journal of Power Sources</i> , 2015 , 275, 341-350	8.9	22
497	On the improvement of PEC activity of hematite thin films deposited by high-power pulsed magnetron sputtering method. <i>Applied Catalysis B: Environmental</i> , 2015 , 165, 344-350	21.8	38
496	Engineering of Self-Organizing Electrochemistry: Porous Alumina and Titania Nanotubes. <i>Advances in Electrochemical Science and Engineering</i> , 2015 , 145-192		3
495	Stable Co-Catalyst-Free Photocatalytic H ₂ Evolution From Oxidized Titanium Nitride Nanopowders. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 13385-9	16.4	31
494	Stable Co-Catalyst-Free Photocatalytic H ₂ Evolution From Oxidized Titanium Nitride Nanopowders. <i>Angewandte Chemie</i> , 2015 , 127, 13583-13587	3.6	2
493	Single-Walled TiO ₂ Nanotubes: Enhanced Carrier-Transport Properties by TiCl ₄ Treatment. <i>Chemistry - A European Journal</i> , 2015 , 21, 9204-8	4.8	19
492	Enhanced Charge Transport in Tantalum Nitride Nanotube Photoanodes for Solar Water Splitting. <i>ChemSusChem</i> , 2015 , 8, 2615-20	8.3	38
491	Binding of plasma proteins to titanium dioxide nanotubes with different diameters. <i>International Journal of Nanomedicine</i> , 2015 , 10, 1359-73	7.3	42
490	Attenuation of the macrophage inflammatory activity by TiO ₂ nanotubes via inhibition of MAPK and NF- κ B pathways. <i>International Journal of Nanomedicine</i> , 2015 , 10, 6455-67	7.3	34
489	Interface chemistry and molecular bonding of functional ethoxysilane-based self-assembled monolayers on magnesium surfaces. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 9006-14	9.5	14
488	Conical-shaped titania nanotubes for optimized light management in DSSCs reach back-side illumination efficiencies > 8%. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 12603-12608	13	18
487	Hierarchical DSSC structures based on single walled TiO ₂ nanotube arrays reach a back-side illumination solar light conversion efficiency of 8%. <i>Energy and Environmental Science</i> , 2015 , 8, 849-854	35.4	100
486	Plasmon-enhanced photoelectrochemical water splitting using au nanoparticles decorated on hematite nanoflake arrays. <i>ChemSusChem</i> , 2015 , 8, 618-22	8.3	46
485	Tungsten doping of Ta ₃ N ₅ -nanotubes for band gap narrowing and enhanced photoelectrochemical water splitting efficiency. <i>Electrochemistry Communications</i> , 2015 , 51, 85-88	5.1	34
484	Ideally ordered porous TiO ₂ prepared by anodization of pretextured Ti by nanoimprinting process. <i>Electrochemistry Communications</i> , 2015 , 50, 73-76	5.1	38
483	Hierarchical decoration of anodic TiO ₂ nanorods for enhanced photocatalytic degradation properties. <i>Electrochimica Acta</i> , 2015 , 155, 244-250	6.7	5
482	Titanium nanostructures for biomedical applications. <i>Nanotechnology</i> , 2015 , 26, 062002	3.4	295

481	Highly controlled coating of biomimetic polydopamine in TiO ₂ nanotubes. <i>Electrochemistry Communications</i> , 2015 , 52, 41-44	5.1	33
480	Enhanced photoelectrochemical water splitting efficiency of a hematite-ordered Sb:SnO ₂ host-guest system. <i>ChemSusChem</i> , 2014 , 7, 421-4	8.3	45
479	Photocatalytic H ₂ production on self-decorated Au nanoparticles/TiO ₂ nanotubes under visible light. <i>Electrochemistry Communications</i> , 2014 , 43, 105-108	5.1	16
478	Efficient photocatalysis on hierarchically structured TiO ₂ nanotubes with mesoporous TiO ₂ filling. <i>Electrochemistry Communications</i> , 2014 , 42, 21-25	5.1	14
477	Growth of ordered anodic SnO ₂ nanochannel layers and their use for H ₂ gas sensing. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 915-920	13	49
476	The effect of grain boundaries on high temperature oxidation of new γ -strengthened CoAlWB superalloys. <i>Corrosion Science</i> , 2014 , 79, 29-33	6.8	29
475	High-power pulsed plasma deposition of hematite photoanode for PEC water splitting. <i>Catalysis Today</i> , 2014 , 230, 8-14	5.3	31
474	Templating Using Self-Aligned TiO ₂ Nanotube Stumps: Highly Ordered Metal and Polymer Bumped Arrays. <i>ChemElectroChem</i> , 2014 , 1, 64-66	4.3	6
473	Design of self-assembled TiO ₂ architectures: Towards hybrid nanotubular interfaces. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 938-945	1.6	4
472	Ar ⁺ -ion bombardment of TiO ₂ nanotubes creates co-catalytic effect for photocatalytic open circuit hydrogen evolution. <i>Electrochemistry Communications</i> , 2014 , 49, 60-64	5.1	31
471	Self-organized cobalt fluoride nanochannel layers used as a pseudocapacitor material. <i>Chemical Communications</i> , 2014 , 50, 7067-70	5.8	16
470	NH ₄ ⁺ treatment of TiO ₂ nanotubes: from N-doping to semimetallic conductivity. <i>Chemical Communications</i> , 2014 , 50, 7960-3	5.8	22
469	A significant cathodic shift in the onset potential of photoelectrochemical water splitting for hematite nanostructures grown from FeSi alloys. <i>Materials Horizons</i> , 2014 , 1, 344-347	14.4	13
468	"Suspended" Pt nanoparticles over TiO ₂ nanotubes for enhanced photocatalytic H ₂ evolution. <i>Chemical Communications</i> , 2014 , 50, 9653-6	5.8	59
467	Hydrothermal growth of highly oriented single crystalline Ta ₂ O ₅ nanorod arrays and their conversion to Ta ₃ N ₅ for efficient solar driven water splitting. <i>Chemical Communications</i> , 2014 , 50, 15561-4	5.8	36
466	One-dimensional titanium dioxide nanomaterials: nanotubes. <i>Chemical Reviews</i> , 2014 , 114, 9385-454	68.1	885
465	Role of Transparent Electrodes for High Efficiency TiO ₂ Nanotube Based Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 16562-16566	3.8	29
464	Bipolar anodization enables the fabrication of controlled arrays of TiO ₂ nanotube gradients. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 17740-17745	13	41

463	Black TiO ₂ nanotubes: cocatalyst-free open-circuit hydrogen generation. <i>Nano Letters</i> , 2014 , 14, 3309-1315	11.5	367
462	Self-decoration of Pt metal particles on TiO ₂ nanotubes used for highly efficient photocatalytic H ₂ production. <i>Chemical Communications</i> , 2014 , 50, 6123-5	5.8	53
461	Anodic TiO ₂ nanotube layers: Why does self-organized growth occur? A mini review. <i>Electrochemistry Communications</i> , 2014 , 46, 157-162	5.1	135
460	Reduced inflammatory activity of RAW 264.7 macrophages on titania nanotube modified Ti surface. <i>International Journal of Biochemistry and Cell Biology</i> , 2014 , 55, 187-95	5.6	77
459	Improved photoelectrochemical water splitting of hematite nanorods thermally grown on Fe ₃ O ₄ alloys. <i>Electrochemistry Communications</i> , 2014 , 44, 49-53	5.1	10
458	In-situ Cr doped anodized TiO ₂ nanotubes with increased photocurrent response. <i>Electrochimica Acta</i> , 2014 , 132, 410-415	6.7	19
457	The two step nanotube formation on TiZr as scaffolds for cell growth. <i>Bioelectrochemistry</i> , 2014 , 98, 39-45	5.6	35
456	Formation of aligned nanoporous/nanotubular layers of vanadium oxy-nitrides. <i>Electrochemistry Communications</i> , 2014 , 43, 31-35	5.1	8
455	Anodic nanotubular/porous hematite photoanode for solar water splitting: substantial effect of iron substrate purity. <i>ChemSusChem</i> , 2014 , 7, 934-40	8.3	57
454	Hydrogenated Anatase: Strong Photocatalytic Dihydrogen Evolution without the Use of a Co-Catalyst. <i>Angewandte Chemie</i> , 2014 , 126, 14425-14429	3.6	31
453	Enhancing the water splitting efficiency of Sn-doped hematite nanoflakes by flame annealing. <i>Chemistry - A European Journal</i> , 2014 , 20, 77-82	4.8	43
452	Influence of bioactive linker molecules on protein adsorption. <i>Surface and Interface Analysis</i> , 2014 , 46, 193-197	1.5	11
451	Hydrogenated anatase: strong photocatalytic dihydrogen evolution without the use of a co-catalyst. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 14201-5	16.4	78
450	HRTEM mapping on Pt-loaded TiO ₂ nanotube gradient arrays. <i>Langmuir</i> , 2014 , 30, 15356-63	4	19
449	Conductivity of anodic TiO ₂ nanotubes: Influence of annealing conditions. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014 , 8, 158-162	2.5	26
448	Tuning the selectivity of photocatalytic synthetic reactions using modified TiO ₂ nanotubes. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 12605-8	16.4	13
447	Controlled Thermal Annealing Tunes the Photoelectrochemical Properties of Nanochanneled Tin-Oxide Structures. <i>ChemElectroChem</i> , 2014 , 1, 1133-1137	4.3	22
446	Tuning the Selectivity of Photocatalytic Synthetic Reactions Using Modified TiO ₂ Nanotubes. <i>Angewandte Chemie</i> , 2014 , 126, 12813-12816	3.6	25

445	Adsorption characteristics of a Zn-Porphyrin on MgO surfaces. <i>Surface and Interface Analysis</i> , 2013 , 45, 194-197	1.5	2
444	Highly ordered TiO ₂ nanotube-stumps with memristive response. <i>Electrochemistry Communications</i> , 2013 , 34, 177-180	5.1	34
443	Excited state properties of anodic TiO ₂ nanotubes. <i>Applied Physics Letters</i> , 2013 , 102, 233109	3.4	18
442	Embedded Palladium Activation as a Facile Method for TiO ₂ -Nanotube Nanoparticle Decoration: Cu ₂ O-Induced Visible-Light Photoactivity. <i>ChemistryOpen</i> , 2013 , 2, 21-4	2.3	8
441	Anodic TiO ₂ nanotubes: double walled vs. single walled. <i>Faraday Discussions</i> , 2013 , 164, 107-16	3.6	49
440	Bottom sealing and photoelectrochemical properties of different types of anodic TiO ₂ nanotubes. <i>Electrochimica Acta</i> , 2013 , 100, 229-235	6.7	13
439	Signal Amplification Strategy Based on TiO ₂ -Nanotube Layers and Nanobeads Carrying Quantum Dots for Electrochemiluminescent Immunosensors. <i>ChemistryOpen</i> , 2013 , 2, 93-8	2.3	6
438	Intrinsic Au decoration of growing TiO ₂ nanotubes and formation of a high-efficiency photocatalyst for H ₂ production. <i>Advanced Materials</i> , 2013 , 25, 6133-7	24	99
437	Anodic growth of hierarchically structured nanotubular ZnO architectures on zinc surfaces using a sulfide based electrolyte. <i>Electrochemistry Communications</i> , 2013 , 34, 9-13	5.1	24
436	Reliable Metal Deposition into TiO ₂ Nanotubes for Leakage-Free Interdigitated Electrode Structures and Use as a Memristive Electrode. <i>Angewandte Chemie</i> , 2013 , 125, 12607-12610	3.6	2
435	Nickel hydroxide nanoparticle activated semi-metallic TiO(2) nanotube arrays for non-enzymatic glucose sensing. <i>Chemistry - A European Journal</i> , 2013 , 19, 15530-4	4.8	48
434	Transport properties of single TiO ₂ nanotubes. <i>Applied Physics Letters</i> , 2013 , 103, 173108	3.4	24
433	Reliable metal deposition into TiO(2) nanotubes for leakage-free interdigitated electrode structures and use as a memristive electrode. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 12381-4	16.4	27
432	Metal-insulator transition in nanocomposite VO _x films formed by anodic electrodeposition. <i>Applied Physics Letters</i> , 2013 , 103, 202102	3.4	4
431	Formation of Pt/Pb nanoparticles by electrodeposition and redox replacement cycles on fluorine doped tin oxide glass. <i>Electrochimica Acta</i> , 2013 , 88, 278-286	6.7	14
430	Evaluation of nanostructured vanadium(V) oxide in catalytic oxidations. <i>Catalysis Science and Technology</i> , 2013 , 3, 2610	5.5	7
429	Electrochemically Assisted Self-Assembling of ZnF ₂ -ZnO Nanospheres: Formation of Hierarchical Thin Porous Films. <i>ECS Electrochemistry Letters</i> , 2013 , 3, E1-E3		8
428	N-Doped lepidocrocite nanotubular arrays: hydrothermal formation from anodic TiO ₂ nanotubes and enhanced visible light photoresponse. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1860-1866	13	13

427	Solar water splitting: preserving the beneficial small feature size in porous β -Fe ₂ O ₃ photoelectrodes during annealing. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 212-215	13	75
426	Electrochemical growth of self-organized TiO ₂ /WO ₃ composite nanotube layers: effects of applied voltage and time. <i>Journal of Applied Electrochemistry</i> , 2013 , 43, 9-13	2.6	16
425	Si-doped Fe ₂ O ₃ nanotubular/nanoporous layers for enhanced photoelectrochemical water splitting. <i>Electrochemistry Communications</i> , 2013 , 34, 308-311	5.1	42
424	Self-organization and zinc doping of Ga ₂ O ₃ nanoporous architecture: A potential nano-photogenerator for hydrogen. <i>Electrochemistry Communications</i> , 2013 , 35, 112-115	5.1	20
423	Formation of anodic TiO ₂ nanotube or nanosponge morphology determined by the electrolyte hydrodynamic conditions. <i>Electrochemistry Communications</i> , 2013 , 26, 1-4	5.1	29
422	Dewetted Au films form a highly active photocatalytic system on TiO ₂ nanotube-stumps. <i>Electrochemistry Communications</i> , 2013 , 34, 351-355	5.1	20
421	Various sized nanotubes on TiZr for antibacterial surfaces. <i>Applied Surface Science</i> , 2013 , 270, 190-196	6.7	45
420	Engineering biocompatible implant surfaces: Part I: Materials and surfaces. <i>Progress in Materials Science</i> , 2013 , 58, 261-326	42.2	506
419	Influence of anodization parameters on the expansion factor of TiO ₂ nanotubes. <i>Electrochimica Acta</i> , 2013 , 91, 90-95	6.7	79
418	Formation of 'single walled' TiO ₂ nanotubes with significantly enhanced electronic properties for higher efficiency dye-sensitized solar cells. <i>Chemical Communications</i> , 2013 , 49, 2067-9	5.8	78
417	Ordered "superlattice" TiO ₂ /Nb ₂ O ₅ nanotube arrays with improved ion insertion stability. <i>Chemical Communications</i> , 2013 , 49, 460-2	5.8	17
416	Photocatalytic properties of in situ doped TiO ₂ -nanotubes grown by rapid breakdown anodization. <i>Catalysis Science and Technology</i> , 2013 , 3, 1765	5.5	19
415	Ti and Sn co-doped anodic β -Fe ₂ O ₃ films for efficient water splitting. <i>Electrochemistry Communications</i> , 2013 , 30, 21-25	5.1	45
414	Robust graphene membranes in a silicon carbide frame. <i>ACS Nano</i> , 2013 , 7, 4441-8	16.7	15
413	High-aspect-ratio dye-sensitized solar cells based on robust, fast-growing TiO ₂ nanotubes. <i>Chemistry - A European Journal</i> , 2013 , 19, 2966-70	4.8	33
412	Self-Organized Arrays of Single-Metal Catalyst Particles in TiO ₂ Cavities: A Highly Efficient Photocatalytic System. <i>Angewandte Chemie</i> , 2013 , 125, 7662-7665	3.6	10
411	Self-organized arrays of single-metal catalyst particles in TiO ₂ cavities: a highly efficient photocatalytic system. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 7514-7	16.4	82
410	Ta-doped TiO ₂ nanotubes for enhanced solar-light photoelectrochemical water splitting. <i>Chemistry - A European Journal</i> , 2013 , 19, 5841-4	4.8	74

409	Current dependent formation of PEDOT inverse nanotube arrays. <i>RSC Advances</i> , 2013 , 3, 2154	3.7	28
408	TiO ₂ nanotubes, nanochannels and mesosponge: Self-organized formation and applications. <i>Nano Today</i> , 2013 , 8, 235-264	17.9	259
407	Influence of annealing temperature on photoelectrochemical water splitting of Fe ₂ O ₃ films prepared by anodic deposition. <i>Electrochimica Acta</i> , 2013 , 91, 307-313	6.7	49
406	Fast electron transport and high surface area: potential application of porous anatase single crystals in solar cells. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 7933-5	16.4	37
405	Anodic formation of self-organized cobalt oxide nanoporous layers. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 2077-81	16.4	62
404	Adhesion of Osteoblasts to a Vertically Aligned TiO ₂ Nanotube Surface. <i>Mini-Reviews in Medicinal Chemistry</i> , 2013 , 13, 194-200	3.2	1
403	Schneller Elektronentransport und große Oberfläche: poröse Anatas-Einkristalle als Schlüsselmaterialien für neue Solarzellen. <i>Angewandte Chemie</i> , 2013 , 125, 8088-8090	3.6	3
402	Anodic Formation of Self-Organized Cobalt Oxide Nanoporous Layers. <i>Angewandte Chemie</i> , 2013 , 125, 2131-2135	3.6	10
401	Adhesion of osteoblasts to a vertically aligned TiO ₂ nanotube surface. <i>Mini-Reviews in Medicinal Chemistry</i> , 2013 , 13, 194-200	3.2	24
400	Small diameter TiO ₂ nanotubes vs. nanopores in dye sensitized solar cells. <i>Electrochemistry Communications</i> , 2012 , 15, 1-4	5.1	62
399	Nb-doping of TiO ₂ /SrTiO ₃ nanotubular heterostructures for enhanced photocatalytic water splitting. <i>Electrochemistry Communications</i> , 2012 , 17, 56-59	5.1	37
398	Strongly enhanced photocurrent response for Na doped Ta ₃ N ₅ -nano porous structure. <i>Electrochemistry Communications</i> , 2012 , 17, 67-70	5.1	32
397	Visible light photo response from N-doped anodic niobium oxide after annealing in ammonia atmosphere. <i>Electrochimica Acta</i> , 2012 , 62, 402-407	6.7	23
396	Photocatalysis vs. anodic-breakdown catalysis on TiO ₂ layers. <i>Electrochimica Acta</i> , 2012 , 66, 7-11	6.7	6
395	Flame annealing effects on self-organized TiO ₂ nanotubes. <i>Electrochimica Acta</i> , 2012 , 66, 12-21	6.7	36
394	Formation of highly ordered VO ₂ nanotubular/nanoporous layers and their supercooling effect in phase transitions. <i>Advanced Materials</i> , 2012 , 24, 1571-5	24	21
393	Nitrogen-doped TiO ₂ mesosponge layers formed by anodization of nitrogen-containing Ti alloys. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 89-92	2.6	16
392	Transparent Self-Ordered Niobium-Oxide Nanochannel Layers Formed on Conducting Glass by Total Anodization of Thin Metal Films in Glycerol/Phosphate Electrolyte. <i>ECS Electrochemistry Letters</i> , 2012 , 2, C4-C6		6

391	The diameter of anodic TiO ₂ nanotubes affects bone formation and correlates with the bone morphogenetic protein-2 expression in vivo. <i>Clinical Oral Implants Research</i> , 2012 , 23, 359-66	4.8	61
390	Rapid anodic formation of high aspect ratio WO ₃ layers with self-ordered nanochannel geometry and use in photocatalysis. <i>Chemistry - A European Journal</i> , 2012 , 18, 14622-6	4.8	21
389	Advanced geometries of PEDOT formed in titania nanotubes. <i>ChemPhysChem</i> , 2012 , 13, 3790-3	3.2	20
388	Ta doping for an enhanced efficiency of TiO ₂ nanotube based dye-sensitized solar cells. <i>Electrochemistry Communications</i> , 2012 , 25, 11-14	5.1	28
387	Palladium Activated Decoration of TiO ₂ Nanotubes by Copper Nanoparticles and Enhanced Photocatalytic Properties. <i>ECS Electrochemistry Letters</i> , 2012 , 1, H29-H31		3
386	Some critical factors for photocatalysis on self-organized TiO ₂ nanotubes. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 3499-3504	2.6	33
385	ECM spreading behaviour on micropatterned TiO ₂ nanotube surfaces. <i>Acta Biomaterialia</i> , 2012 , 8, 2639-47.8	4.8	24
384	Anodic TiO ₂ nanotubes: Influence of top morphology on their photocatalytic performance. <i>Electrochemistry Communications</i> , 2012 , 22, 162-165	5.1	50
383	Front side illuminated dye-sensitized solar cells using anodic TiO ₂ mesoporous layers grown on FTO-glass. <i>Electrochemistry Communications</i> , 2012 , 22, 157-161	5.1	11
382	Optimizing TiO ₂ nanotube top geometry for use in dye-sensitized solar cells. <i>Chemistry - A European Journal</i> , 2012 , 18, 11862-6	4.8	43
381	A review of photocatalysis using self-organized TiO ₂ nanotubes and other ordered oxide nanostructures. <i>Small</i> , 2012 , 8, 3073-103	11	533
380	Thermal air oxidation of Fe: rapid hematite nanowire growth and photoelectrochemical water splitting performance. <i>Electrochemistry Communications</i> , 2012 , 23, 59-62	5.1	42
379	Interaction of bovine serum albumin and lysozyme with stainless steel studied by time-of-flight secondary ion mass spectrometry and X-ray photoelectron spectroscopy. <i>Langmuir</i> , 2012 , 28, 16306-17	4	32
378	Enhanced water splitting activity of M-doped Ta ₃ N ₅ (M = Na, K, Rb, Cs). <i>Chemical Communications</i> , 2012 , 48, 8685-7	5.8	56
377	Water annealing and other low temperature treatments of anodic TiO ₂ nanotubes: A comparison of properties and efficiencies in dye sensitized solar cells and for water splitting. <i>Electrochimica Acta</i> , 2012 , 82, 98-102	6.7	73
376	Ultrafast growth of highly ordered anodic TiO ₂ nanotubes in lactic acid electrolytes. <i>Journal of the American Chemical Society</i> , 2012 , 134, 11316-8	16.4	113
375	Oxide Growth Efficiencies and Self-Organization of TiO ₂ Nanotubes. <i>Journal of the Electrochemical Society</i> , 2012 , 159, H697-H703	3.9	13
374	Surface-assisted laser desorption-ionization mass spectrometry on titanium dioxide (TiO ₂) nanotube layers. <i>Analyst, The</i> , 2012 , 137, 3058-63	5	35

373	Anodically formed transparent mesoporous TiO ₂ electrodes for high electrochromic contrast. <i>Journal of Materials Chemistry</i> , 2012 , 22, 9821		36
372	Front-side illuminated dye-sensitized solar cells based on bundle shaped titania nanotube membranes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 193-198	1.6	2
371	Synergistic control of mesenchymal stem cell differentiation by nanoscale surface geometry and immobilized growth factors on TiO ₂ nanotubes. <i>Small</i> , 2012 , 8, 98-107	11	102
370	Ru-doped TiO ₂ nanotubes: Improved performance in dye-sensitized solar cells. <i>Physica Status Solidi - Rapid Research Letters</i> , 2012 , 6, 169-171	2.5	34
369	Anodic formation of high aspect ratio, self-ordered Nb ₂ O ₅ nanotubes. <i>Chemical Communications</i> , 2012 , 48, 4244-6	5.8	59
368	Through-hole, self-ordered nanoporous oxide layers on titanium, niobium and titanium-niobium alloys in aqueous and organic nitrate electrolytes. <i>ChemistryOpen</i> , 2012 , 1, 21-5	2.3	8
367	Semimetallic TiO ₂ nanotubes: new interfaces for bioelectrochemical enzymatic catalysis. <i>Journal of Materials Chemistry</i> , 2012 , 22, 4615		26
366	Influence of hydrodynamic conditions on growth and geometry of anodic TiO ₂ nanotubes and their use towards optimized DSSCs. <i>Journal of Materials Chemistry</i> , 2012 , 22, 12792		28
365	Formation of highly ordered nanochannel Nb oxide by self-organizing anodization. <i>Chemistry - A European Journal</i> , 2012 , 18, 9521-4	4.8	31
364	Continuous flow photocatalytic oxidation of nitrogen oxides over anodized nanotubular titania films. <i>Chemical Engineering Journal</i> , 2012 , 179, 151-157	14.7	34
363	Photoelectrochemical Properties of Anodic TiO ₂ Nanosponge Layers. <i>ECS Electrochemistry Letters</i> , 2012 , 2, H9-H11		9
362	TiO ₂ nanotube micropatterns highly selective model surfaces. <i>Biomedizinische Technik</i> , 2012 , 57,	1.3	1
361	Morphological instability leading to formation of porous anodic oxide films. <i>Nature Materials</i> , 2011 , 11, 162-6	27	216
360	Surface modification of TiO ₂ nanotubes by low temperature thermal treatment in C ₂ H ₂ atmosphere. <i>Journal of Electroanalytical Chemistry</i> , 2011 , 662, 25-29	4.1	14
359	Adhesion of osteoblasts to a nanorough titanium implant surface. <i>International Journal of Nanomedicine</i> , 2011 , 6, 1801-16	7.3	101
358	Highly self-ordered nanochannel TiO ₂ structures by anodization in a hot glycerol electrolyte. <i>Chemical Communications</i> , 2011 , 47, 5789-91	5.8	39
357	Vertically aligned mixed V ₂ O ₅ -TiO ₂ nanotube arrays for supercapacitor applications. <i>Chemical Communications</i> , 2011 , 47, 7746-8	5.8	185
356	Anodic TiO ₂ nanotube layers electrochemically filled with MoO ₃ and their antimicrobial properties. <i>Biointerphases</i> , 2011 , 6, 16-21	1.8	31

355	Polymer nanowires or nanopores? Site selective filling of titania nanotubes with polypyrrole. <i>Journal of Materials Chemistry</i> , 2011 , 21, 17909		41
354	Nb doping of TiO ₂ nanotubes for an enhanced efficiency of dye-sensitized solar cells. <i>Chemical Communications</i> , 2011 , 47, 2032-4	5.8	106
353	Oxide nanotubes on Ti-Ru alloys: strongly enhanced and stable photoelectrochemical activity for water splitting. <i>Journal of the American Chemical Society</i> , 2011 , 133, 5629-31	16.4	99
352	Nb doped TiO ₂ nanotubes for enhanced photoelectrochemical water-splitting. <i>Nanoscale</i> , 2011 , 3, 3094-67	6.7	168
351	Electrochromic properties of anodically grown mixed V ₂ O ₅ /TiO ₂ nanotubes. <i>Electrochemistry Communications</i> , 2011 , 13, 1021-1025	5.1	35
350	Porous anodic alumina: Amphiphilic and magnetically guidable micro-rafts. <i>Electrochemistry Communications</i> , 2011 , 13, 934-937	5.1	2
349	Improved water-splitting behaviour of flame annealed TiO ₂ nanotubes. <i>Electrochemistry Communications</i> , 2011 , 13, 1030-1034	5.1	37
348	A self-cleaning nonenzymatic glucose detection system based on titania nanotube arrays modified with platinum nanoparticles. <i>Electrochemistry Communications</i> , 2011 , 13, 1217-1220	5.1	34
347	Lithium-ion intercalation and electrochromism in ordered V ₂ O ₅ nanoporous layers. <i>Electrochemistry Communications</i> , 2011 , 13, 1198-1201	5.1	19
346	Anodic formation of Ti-V binary oxide mesoporous layers for supercapacitor applications. <i>Chemistry - an Asian Journal</i> , 2011 , 6, 2916-9	4.5	7
345	Photoelectrochemical and photocatalytic activity of tungsten doped TiO ₂ nanotube layers in the near visible region. <i>Electrochimica Acta</i> , 2011 , 56, 10557-10561	6.7	46
344	Nitrates: A new class of electrolytes for the rapid anodic growth of self-ordered oxide nanopore layers on Ti and Ta. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011 , 5, 394-396	2.5	11
343	Enhanced Open-Circuit Photopotential in Quasi-Solid-State Dye-Sensitized Solar Cells Based on Polymer Redox Electrolytes Filled with Anodic Titania Nanotubes. <i>Advanced Energy Materials</i> , 2011 , 1, 569-572	21.8	18
342	TiO ₂ -Nanoröhren: Synthese und Anwendungen. <i>Angewandte Chemie</i> , 2011 , 123, 2956-2995	3.6	103
341	Enabling the Anodic Growth of Highly Ordered V ₂ O ₅ Nanoporous/Nanotubular Structures. <i>Angewandte Chemie</i> , 2011 , 123, 9237-9241	3.6	17
340	TiO ₂ nanotubes: synthesis and applications. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 2904-396.4	16.4	2393
339	Enabling the anodic growth of highly ordered V ₂ O ₅ nanoporous/nanotubular structures. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 9071-5	16.4	65
338	Ultra fast electrochromic switching of nanoporous tungsten-tantalum oxide films. <i>Chemical Communications</i> , 2011 , 47, 1000-2	5.8	29

337	Increased photocurrent response in Nb-doped TiO ₂ nanotubes. <i>Journal of Materials Chemistry</i> , 2011 , 21, 15205		41
336	Formation of magnetic aluminium oxyhydroxide nanorods and use for hyperthermal effects. <i>Nanotechnology</i> , 2011 , 22, 115601	3.4	7
335	Protein denaturation detected by time-of-flight secondary ion mass spectrometry. <i>Langmuir</i> , 2011 , 27, 7510-5	4	23
334	Covalent functionalization of TiO ₂ nanotube arrays with EGF and BMP-2 for modified behavior towards mesenchymal stem cells. <i>Integrative Biology (United Kingdom)</i> , 2011 , 3, 927-36	3.7	36
333	Micropatterned TiO ₂ nanotube surfaces for site-selective nucleation of hydroxyapatite from simulated body fluid. <i>Acta Biomaterialia</i> , 2011 , 7, 424-31	10.8	56
332	Anodic mesoporous TiO ₂ layer on Ti for enhanced formation of biomimetic hydroxyapatite. <i>Acta Biomaterialia</i> , 2011 , 7, 1873-9	10.8	49
331	From anodic TiO ₂ nanotubes to hexagonally ordered TiO ₂ nanocolumns. <i>Applied Surface Science</i> , 2011 , 257, 8177-8181	6.7	21
330	Fast formation of aligned high-aspect ratio TiO ₂ nanotube bundles that lead to increased open circuit voltage when used in dye sensitized solar cells. <i>Electrochemistry Communications</i> , 2011 , 13, 302-305	5.1	17
329	Size-effects in TiO ₂ nanotubes: Diameter dependent anatase/rutile stabilization. <i>Electrochemistry Communications</i> , 2011 , 13, 538-541	5.1	95
328	Highly ordered nanoporous Ta ₂ O ₅ formed by anodization of Ta at high temperatures in a glycerol/phosphate electrolyte. <i>Electrochemistry Communications</i> , 2011 , 13, 542-545	5.1	32
327	Highly uniform Pt nanoparticle decoration on TiO ₂ nanotube arrays: A refreshable platform for methanol electrooxidation. <i>Electrochemistry Communications</i> , 2011 , 13, 290-293	5.1	106
326	The origin for tubular growth of TiO ₂ nanotubes: A fluoride rich layer between tube-walls. <i>Surface Science</i> , 2011 , 605, L57-L60	1.8	85
325	Visible-light-induced photocatalysis using self-organized TiO ₂ nanotubes decorated with AgBr deposits. <i>Semiconductor Science and Technology</i> , 2011 , 26, 092002	1.8	14
324	Toward Self-Ordered Silica Nanotubes by Electrochemical Anodization of Si(100). <i>Electrochemical and Solid-State Letters</i> , 2010 , 13, C25		5
323	Voltage Induced Self-Peeling of Initiation Layers on Self-Organized TiO ₂ /WO ₃ Nanotubes and Formation of Oxide Nanosheet Rolls. <i>Electrochemical and Solid-State Letters</i> , 2010 , 13, K73		8
322	Scanning Electron Microscopy Observation of Nanoscopic Wetting of TiO ₂ Nanotubes and ODS Modified Nanotubes Using Ionic Liquids. <i>Electrochemical and Solid-State Letters</i> , 2010 , 13, E11		19
321	Influence of Water Content on the Growth of Anodic TiO ₂ Nanotubes in Fluoride-Containing Ethylene Glycol Electrolytes. <i>Journal of the Electrochemical Society</i> , 2010 , 157, C18	3.9	107
320	Self-Ordered Nanoporous Nickel Oxide/Fluoride Composite Film with Strong Electrochromic Contrast. <i>Electrochemical and Solid-State Letters</i> , 2010 , 13, C21		29

3 ¹⁹	A Photo-Electrochemical Investigation of Self-Organized TiO ₂ Nanotubes. <i>Journal of the Electrochemical Society</i> , 2010 , 157, G76	3.9	122
3 ¹⁸	Electrochemical Formation of Bismuth Phosphate Nanorods by Anodization of Bismuth. <i>Electrochemical and Solid-State Letters</i> , 2010 , 13, C5		20
3 ¹⁷	TiO ₂ nanotubes and their application in dye-sensitized solar cells. <i>Nanoscale</i> , 2010 , 2, 45-59	7.7	516
3 ¹⁶	Preparation and Adsorption Properties of Pd Nanoparticles Supported on TiO ₂ Nanotubes. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 20146-20154	3.8	20
3 ¹⁵	Functionalization of metallic magnesium with protein layers via linker molecules. <i>Langmuir</i> , 2010 , 26, 12044-8	4	42
3 ¹⁴	Controlling the adsorption kinetics via nanostructuring: Pd nanoparticles on TiO ₂ nanotubes. <i>Langmuir</i> , 2010 , 26, 14014-23	4	18
3 ¹³	Anodic formation of thick anatase TiO ₂ mesosponge layers for high-efficiency photocatalysis. <i>Journal of the American Chemical Society</i> , 2010 , 132, 1478-9	16.4	155
3 ¹²	Size-selective separation of macromolecules by nanochannel titania membrane with self-cleaning (declogging) ability. <i>Journal of the American Chemical Society</i> , 2010 , 132, 7893-5	16.4	73
3 ¹¹	Polypyrrole self-organized nanopore arrays formed by controlled electropolymerization in TiO ₂ nanotube template. <i>Chemical Communications</i> , 2010 , 46, 8585-7	5.8	55
3 ¹⁰	Nitrogen doping of nanoporous WO ₃ layers by NH ₃ treatment for increased visible light photoresponse. <i>Nanotechnology</i> , 2010 , 21, 105704	3.4	76
3 ⁰⁹	ToF-SIMS and XPS studies of the adsorption characteristics of a Zn-porphyrin on TiO ₂ . <i>Langmuir</i> , 2010 , 26, 3531-8	4	37
3 ⁰⁸	Ideal Hexagonal Order: Formation of Self-Organized Anodic Oxide Nanotubes and Nanopores on a Ti ₅ B ₅ Ta Alloy. <i>Journal of the Electrochemical Society</i> , 2010 , 157, C409	3.9	26
3 ⁰⁷	Highly defined and ordered top-openings in TiO ₂ nanotube arrays. <i>Physica Status Solidi - Rapid Research Letters</i> , 2010 , 4, 151-153	2.5	33
3 ⁰⁶	TiO ₂ nanotubes grown in different organic electrolytes: Two-size self-organization, single vs. double-walled tubes, and giant diameters. <i>Physica Status Solidi - Rapid Research Letters</i> , 2010 , 4, 215-217	2.5	69
3 ⁰⁵	MoO ₃ in self-organized TiO ₂ nanotubes for enhanced photocatalytic activity. <i>Chemistry - an Asian Journal</i> , 2010 , 5, 66-9	4.5	48
3 ⁰⁴	Self-organized TiO ₂ Nanotube Arrays: Critical Effects on Morphology and Growth. <i>Israel Journal of Chemistry</i> , 2010 , 50, 453-467	3.4	79
3 ⁰³	Self-organized CdS microstructures by anodization of Cd in chloride containing Na ₂ S solution. <i>Electrochimica Acta</i> , 2010 , 55, 7766-7771	6.7	14
3 ⁰²	Optimized monolayer grafting of 3-aminopropyltriethoxysilane onto amorphous, anatase and rutile TiO ₂ . <i>Surface Science</i> , 2010 , 604, 346-353	1.8	92

301	Bright visible luminescence of self-organized ZrO ₂ nanotubes. <i>Journal of Solid State Electrochemistry</i> , 2010 , 14, 285-288	2.6	39
300	Nanoscale engineering of biomimetic surfaces: cues from the extracellular matrix. <i>Cell and Tissue Research</i> , 2010 , 339, 131-53	4.2	279
299	Doped TiO ₂ and TiO ₂ nanotubes: synthesis and applications. <i>ChemPhysChem</i> , 2010 , 11, 2698-713	3.2	302
298	TiO ₂ Nanotubes [Annealing Effects on Detailed Morphology and Structure. <i>European Journal of Inorganic Chemistry</i> , 2010 , 2010, 4351-4356	2.3	111
297	Formation of self-organized superlattice nanotube arrays - embedding heterojunctions into nanotube walls. <i>Advanced Materials</i> , 2010 , 22, 4770-4	24	20
296	WO ₃ /TiO ₂ nanotubes with strongly enhanced photocatalytic activity. <i>Chemistry - A European Journal</i> , 2010 , 16, 8993-7	4.8	93
295	Voltage-Induced Payload Release and Wettability Control on TiO ₂ and TiO ₂ Nanotubes. <i>Angewandte Chemie</i> , 2010 , 122, 361-364	3.6	15
294	Voltage-induced payload release and wettability control on TiO ₂ and TiO ₂ nanotubes. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 351-4	16.4	102
293	Ordered nanopore boring in silicon: Metal-assisted etching using a self-aligned block copolymer Au nanoparticle template and gravity accelerated etching. <i>Electrochemistry Communications</i> , 2010 , 12, 565-569	5.1	12
292	Dye-sensitized solar cells using anodic TiO ₂ mesosponge: Improved efficiency by TiCl ₄ treatment. <i>Electrochemistry Communications</i> , 2010 , 12, 574-578	5.1	57
291	High resolution LAPS and SPIM. <i>Electrochemistry Communications</i> , 2010 , 12, 758-760	5.1	42
290	TiO ₂ nanotubes in dye-sensitized solar cells: Higher efficiencies by well-defined tube tops. <i>Electrochemistry Communications</i> , 2010 , 12, 949-951	5.1	98
289	TiO ₂ nanotube layers: Flexible and electrically active flow-through membranes. <i>Electrochemistry Communications</i> , 2010 , 12, 1352-1355	5.1	33
288	Ultrafast oxide nanotube formation on TiNb, TiZr and TiTa alloys by rapid breakdown anodization. <i>Electrochimica Acta</i> , 2010 , 55, 8883-8887	6.7	60
287	Direct anodic growth of thick WO ₃ mesosponge layers and characterization of their photoelectrochemical response. <i>Electrochimica Acta</i> , 2010 , 56, 828-833	6.7	28
286	Mechanical properties of anatase and semi-metallic TiO ₂ nanotubes. <i>Acta Materialia</i> , 2010 , 58, 6317-6328	3.4	63
285	Photocatalytic degradation of gas pollutants on self-assembled titania nanotubes. <i>Chemical Physics Letters</i> , 2010 , 490, 58-62	2.5	73
284	Conductivity of TiO ₂ nanotubes: Influence of annealing time and temperature. <i>Chemical Physics Letters</i> , 2010 , 494, 260-263	2.5	117

283	Self-organized TiO ₂ nanotubes: Visible light activation by Ni oxide nanoparticle decoration. <i>Electrochemistry Communications</i> , 2010 , 12, 254-257	5.1	71
282	Modulated TiO ₂ nanotube stacks and their use in interference sensors. <i>Electrochemistry Communications</i> , 2010 , 12, 579-582	5.1	85
281	Anodic growth of self-ordered magnesium oxy-fluoride nanoporous/tubular layers on Mg alloy (WE43). <i>Electrochemistry Communications</i> , 2010 , 12, 796-799	5.1	30
280	Transition of TiO ₂ nanotubes to nanopores for electrolytes with very low water contents. <i>Electrochemistry Communications</i> , 2010 , 12, 1184-1186	5.1	91
279	Self-organized TiO ₂ nanotubes: Factors affecting their morphology and properties. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 2424-2435	1.3	72
278	TiO ₂ nano test tubes as a self-cleaning platform for high-sensitivity immunoassays. <i>Small</i> , 2010 , 6, 1180-1184	4.1	73
277	Electrochemical Monitoring of the Formation of Self Organized Monolayers: Octadecylphosphonic Acid on Anodically Grown Titanium Dioxide. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2009 , 60, 170-173	0.1	1
276	Another look at "Stem cell fate dictated solely by altered nanotube dimension". <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, E60; author reply E61	11.5	33
275	Properties of the Nanoporous Anodic Oxide Electrochemically Grown on Steel in Hot 50% NaOH. <i>Journal of the Electrochemical Society</i> , 2009 , 156, C45	3.9	27
274	Self-Ordered Hexagonal Nanoporous Hafnium Oxide and Transition to Aligned HfO ₂ Nanotube Layers. <i>Electrochemical and Solid-State Letters</i> , 2009 , 12, K45		40
273	Thick Self-Ordered Nanoporous Ta ₂ O ₅ Films with Long-Range Lateral Order. <i>Journal of the Electrochemical Society</i> , 2009 , 156, K104	3.9	44
272	Ordered Ferroelectric Lead Titanate Nanocellular Structure by Conversion of Anodic TiO ₂ Nanotubes. <i>Advanced Materials</i> , 2009 , 21, 3121-3125	24	68
271	Magnetically Guided Titania Nanotubes for Site-Selective Photocatalysis and Drug Release. <i>Angewandte Chemie</i> , 2009 , 121, 987-990	3.6	26
270	In vivo evaluation of anodic TiO ₂ nanotubes: an experimental study in the pig. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009 , 89, 165-71	3.5	191
269	Semimetallic TiO ₂ Nanotubes. <i>Angewandte Chemie</i> , 2009 , 121, 7372-7375	3.6	28
268	Formation of a Non-Thickness-Limited Titanium Dioxide Mesosponge and its Use in Dye-Sensitized Solar Cells. <i>Angewandte Chemie</i> , 2009 , 121, 9490-9493	3.6	26
267	Magnetically guided titania nanotubes for site-selective photocatalysis and drug release. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 969-72	16.4	195
266	Semimetallic TiO ₂ nanotubes. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 7236-9	16.4	122

265	Formation of a non-thickness-limited titanium dioxide mesosponge and its use in dye-sensitized solar cells. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 9326-9	16.4	71
264	Novel pore shape and self-organization effects in n-GaP(111). <i>Journal of Solid State Electrochemistry</i> , 2009 , 13, 807-812	2.6	10
263	Bioactivation of titanium surfaces using coatings of TiO ₂ nanotubes rapidly pre-loaded with synthetic hydroxyapatite. <i>Acta Biomaterialia</i> , 2009 , 5, 2322-30	10.8	159
262	Metallurgical aspects on the formation of self-organized anodic oxide nanotube layers. <i>Electrochimica Acta</i> , 2009 , 54, 5155-5162	6.7	30
261	Influence of water content on nanotubular anodic titania formed in fluoride/glycerol electrolytes. <i>Electrochimica Acta</i> , 2009 , 54, 4321-4327	6.7	161
260	TiO ₂ nanotube surfaces: 15 nm--an optimal length scale of surface topography for cell adhesion and differentiation. <i>Small</i> , 2009 , 5, 666-71	11	442
259	Improved efficiency of TiO ₂ nanotubes in dye sensitized solar cells by decoration with TiO ₂ nanoparticles. <i>Electrochemistry Communications</i> , 2009 , 11, 1001-1004	5.1	178
258	Electron beam induced in-vacuo Ag deposition on TiO ₂ from ionic liquids. <i>Electrochemistry Communications</i> , 2009 , 11, 1567-1570	5.1	35
257	Thick porous tungsten trioxide films by anodization of tungsten in fluoride containing phosphoric acid electrolyte. <i>Electrochemistry Communications</i> , 2009 , 11, 1908-1911	5.1	56
256	Enhanced visible light photocurrent generation at surface-modified TiO ₂ nanotubes. <i>Electrochimica Acta</i> , 2009 , 54, 2640-2646	6.7	85
255	Decoration of TiO ₂ nanotube layers with WO ₃ nanocrystals for high-electrochromic activity. <i>Electrochemistry Communications</i> , 2009 , 11, 728-732	5.1	85
254	Photoinduced release of active proteins from TiO ₂ surfaces. <i>Electrochemistry Communications</i> , 2009 , 11, 1429-1433	5.1	23
253	X-ray induced photocatalysis on TiO ₂ and TiO ₂ nanotubes: Degradation of organics and drug release. <i>Electrochemistry Communications</i> , 2009 , 11, 2077-2080	5.1	39
252	Electrochemical wettability control on conductive TiO ₂ nanotube surfaces modified with a ferrocene redox system. <i>Electrochemistry Communications</i> , 2009 , 11, 2000-2003	5.1	8
251	Steel corrosion in alkaline batteries. <i>Electrochimica Acta</i> , 2009 , 54, 5216-5222	6.7	6
250	A lithographic approach to determine volume expansion factors during anodization: Using the example of initiation and growth of TiO ₂ -nanotubes. <i>Electrochimica Acta</i> , 2009 , 54, 5942-5948	6.7	88
249	TiO ₂ nanotubes in dye-sensitized solar cells: critical factors for the conversion efficiency. <i>Chemistry - an Asian Journal</i> , 2009 , 4, 520-5	4.5	160
248	Influence of Surface Condition on Nanoporous and Nanotubular Film Formation on Titanium. <i>Journal of the Electrochemical Society</i> , 2009 , 156, K17	3.9	19

247	Anodic Porous and Tubular Oxide Layers on Ti Alloys. <i>ECS Transactions</i> , 2009 , 16, 359-367	1	6
246	Narrow window in nanoscale dependent activation of endothelial cell growth and differentiation on TiO ₂ nanotube surfaces. <i>Nano Letters</i> , 2009 , 9, 3157-64	11.5	194
245	TiO ₂ Nanotubes: Efficient Suppression of Top Etching during Anodic Growth. <i>Electrochemical and Solid-State Letters</i> , 2009 , 12, C17		55
244	Anodic oxide nanotube layers on Ti alloys: Substrate composition, microstructure and self-organization on two-size scales. <i>Corrosion Science</i> , 2009 , 51, 1528-1533	6.8	55
243	Self-Organized Oxide Nanotube Layers on Titanium and Other Transition Metals. <i>Nanostructure Science and Technology</i> , 2009 , 435-466	0.9	4
242	Self-ordering electrochemistry: a review on growth and functionality of TiO ₂ nanotubes and other self-aligned MO(x) structures. <i>Chemical Communications</i> , 2009 , 2791-808	5.8	717
241	Photo-induced effects on self-organized TiO ₂ nanotube arrays: the influence of surface morphology. <i>Nanotechnology</i> , 2009 , 20, 045603	3.4	71
240	Self-Organized Anodic TiO ₂ Nanotube Arrays Functionalized by Iron Oxide Nanoparticles. <i>Chemistry of Materials</i> , 2009 , 21, 662-672	9.6	126
239	Self-organized nano-tubes of TiO ₂ -MoO ₃ with enhanced electrochromic properties. <i>Chemical Communications</i> , 2009 , 2008-10	5.8	66
238	Transparent TiO ₂ nanotube electrodes via thin layer anodization: fabrication and use in electrochromic devices. <i>Langmuir</i> , 2009 , 25, 4841-4	4	111
237	MFI-type (ZSM-5) zeolite-filled TiO ₂ nanotubes for enhanced photocatalytic activity. <i>Nanotechnology</i> , 2009 , 20, 225607	3.4	23
236	Amphiphilic TiO ₂ nanotube arrays: an actively controllable drug delivery system. <i>Journal of the American Chemical Society</i> , 2009 , 131, 4230-2	16.4	368
235	Self-organized Anodic TiO ₂ -nanotubes in Fluoride Free Electrolytes. <i>ECS Transactions</i> , 2009 , 16, 369-373		8
234	Size selective behavior of mesenchymal stem cells on ZrO ₂ and TiO ₂ nanotube arrays. <i>Integrative Biology (United Kingdom)</i> , 2009 , 1, 525-32	3.7	146
233	Modeling of Growth and Dissolution of Nanotubular Titania in Fluoride-Containing Electrolytes. <i>Electrochemical and Solid-State Letters</i> , 2009 , 12, C5		15
232	High aspect ratio, self-ordered iron oxide nanopores formed by anodization of Fe in ethylene glycol/NH ₄ F electrolytes. <i>Physica Status Solidi - Rapid Research Letters</i> , 2009 , 3, 64-66	2.5	79
231	Effect of Electrolyte Conductivity on the Formation of a Nanotubular TiO ₂ Photoanode for a Dye-Sensitized Solar Cell. <i>Journal of the Korean Physical Society</i> , 2009 , 54, 1027-1031	0.6	37
230	Dye-sensitized solar cells based on thick highly ordered TiO ₂ nanotubes produced by controlled anodic oxidation in non-aqueous electrolytic media. <i>Nanotechnology</i> , 2008 , 19, 235602	3.4	110

229	The efficiency of nanotube formation on titanium anodized under voltage and current control in fluoride/glycerol electrolyte. <i>Nanotechnology</i> , 2008 , 19, 355701	3.4	38
228	TiO ₂ -WO ₃ composite nanotubes by alloy anodization: growth and enhanced electrochromic properties. <i>Journal of the American Chemical Society</i> , 2008 , 130, 16154-5	16.4	202
227	Bamboo-type TiO ₂ nanotubes: improved conversion efficiency in dye-sensitized solar cells. <i>Journal of the American Chemical Society</i> , 2008 , 130, 16454-5	16.4	295
226	Transition from Nanopores to Nanotubes: Self-Ordered Anodic Oxide Structures on Titanium/Aluminides. <i>Chemistry of Materials</i> , 2008 , 20, 3245-3247	9.6	99
225	Smooth titania nanotubes: Self-organization and stabilization of anatase phase. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 2190-2194	3.9	26
224	Phase Composition, Size, Orientation, and Antenna Effects of Self-Assembled Anodized Titania Nanotube Arrays: A Polarized Micro-Raman Investigation. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 12687-12696	3.8	103
223	Tracer Investigation of Pore Formation in Anodic Titania. <i>Journal of the Electrochemical Society</i> , 2008 , 155, C487	3.9	113
222	Impedance Behavior of TiO ₂ Nanotubes Formed by Anodization in NaF Electrolytes. <i>Journal of the Electrochemical Society</i> , 2008 , 155, C293	3.9	46
221	Capillary effects, wetting behavior and photo-induced tube filling of TiO ₂ nanotube layers. <i>Nanotechnology</i> , 2008 , 19, 305710	3.4	26
220	Anodic TiO ₂ Layer Conversion: Fluoride-Induced Rutile Formation at Room Temperature. <i>Electrochemical and Solid-State Letters</i> , 2008 , 11, K11		33
219	Reactivity Screening of Anatase TiO ₂ Nanotubes Array and Anatase Thin Films: A Surface Chemistry Point of View. <i>ACS Symposium Series</i> , 2008 , 139-151	0.4	2
218	High-Efficiency Conversion of Sputtered Ti Thin Films into TiO ₂ Nanotubular Layers. <i>Electrochemical and Solid-State Letters</i> , 2008 , 11, C37		39
217	Preparation of Organized Ti Nanorods by Successive Electrochemical Processes in Aqueous Solution and Molten Salt. <i>Electrochemical and Solid-State Letters</i> , 2008 , 11, C51		9
216	Selective electrochemical gold deposition onto p-Si (1 0 0) surfaces. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 175301	3	3
215	Electrochemical formation of self-organized anodic nanotube coating on Ti-28Zr-8Nb biomedical alloy surface. <i>Acta Biomaterialia</i> , 2008 , 4, 318-23	10.8	72
214	Electrochemical synthesis of self-organized TiO ₂ nanotubular structures using an ionic liquid (BMIM-BF ₄). <i>Electrochimica Acta</i> , 2008 , 54, 643-648	6.7	71
213	Nanostructured black cobalt coatings for solar absorbers. <i>Surface and Interface Analysis</i> , 2008 , 40, 1493-1499	1.5	9
212	High-contrast electrochromic switching using transparent lift-off layers of self-organized TiO ₂ nanotubes. <i>Small</i> , 2008 , 4, 1063-6	11	109

211	Growth of aligned TiO ₂ bamboo-type nanotubes and highly ordered nanolace. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 1916-9	16.4	182
210	Lattice widening in niobium-doped TiO ₂ nanotubes: efficient ion intercalation and swift electrochromic contrast. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 7934-7	16.4	90
209	Formation of Double-Walled TiO ₂ Nanotubes and Robust Anatase Membranes. <i>Advanced Materials</i> , 2008 , 20, NA-NA	24	67
208	Growth of Aligned TiO ₂ Bamboo-Type Nanotubes and Highly Ordered Nanolace. <i>Angewandte Chemie</i> , 2008 , 120, 1942-1945	3.6	41
207	Lattice Widening in Niobium-Doped TiO ₂ Nanotubes: Efficient Ion Intercalation and Swift Electrochromic Contrast. <i>Angewandte Chemie</i> , 2008 , 120, 8052-8055	3.6	13
206	Mechanistic aspects and growth of large diameter self-organized TiO ₂ nanotubes. <i>Journal of Electroanalytical Chemistry</i> , 2008 , 621, 254-266	4.1	404
205	Nitrogen doped anodic TiO ₂ nanotubes grown from nitrogen-containing Ti alloys. <i>Electrochemistry Communications</i> , 2008 , 10, 910-913	5.1	68
204	Formation of hexagonally ordered nanoporous anodic zirconia. <i>Electrochemistry Communications</i> , 2008 , 10, 1916-1919	5.1	83
203	Improved attachment of mesenchymal stem cells on super-hydrophobic TiO ₂ nanotubes. <i>Acta Biomaterialia</i> , 2008 , 4, 1576-82	10.8	161
202	Photocatalytic activity of TiO ₂ nanotube layers loaded with Ag and Au nanoparticles. <i>Electrochemistry Communications</i> , 2008 , 10, 71-75	5.1	342
201	A novel approach for the formation of Mg(OH) ₂ /MgO nanowhiskers on magnesium: Rapid anodization in chloride containing solutions. <i>Electrochemistry Communications</i> , 2008 , 10, 288-292	5.1	42
200	High aspect ratio ordered nanoporous Ta ₂ O ₅ films by anodization of Ta. <i>Electrochemistry Communications</i> , 2008 , 10, 428-432	5.1	98
199	Gravity assisted growth of self-organized anodic oxide nanotubes on titanium. <i>Electrochemistry Communications</i> , 2008 , 10, 1082-1086	5.1	26
198	Enhanced electrochromic properties of self-organized nanoporous WO ₃ . <i>Electrochemistry Communications</i> , 2008 , 10, 1777-1780	5.1	110
197	TiO ₂ Nanotube arrays: Elimination of disordered top layers (nanograss) for improved photoconversion efficiency in dye-sensitized solar cells. <i>Electrochemistry Communications</i> , 2008 , 10, 1835-1838	5.1	181
196	Repair of thin thermally grown silicon dioxide by anodic oxidation. <i>Electrochimica Acta</i> , 2008 , 53, 3395-3402	4.02	19
195	Time-dependent growth of biomimetic apatite on anodic TiO ₂ nanotubes. <i>Electrochimica Acta</i> , 2008 , 53, 6995-7003	6.7	139
194	Dye-sensitized solar cells based on oriented TiO ₂ nanotube arrays: transport, trapping, and transfer of electrons. <i>Journal of the American Chemical Society</i> , 2008 , 130, 13364-72	16.4	708

193	Enhanced self-ordering of anodic ZrO ₂ nanotubes in inorganic and organic electrolytes using two-step anodization. <i>Physica Status Solidi - Rapid Research Letters</i> , 2008 , 2, 102-104	2.5	72
192	TiO ₂ nanotubes: photocatalyst for cancer cell killing. <i>Physica Status Solidi - Rapid Research Letters</i> , 2008 , 2, 194-196	2.5	82
191	Prediction of negative index material lenses based on metallo-dielectric nanotubes. <i>Physica Status Solidi - Rapid Research Letters</i> , 2008 , 2, 242-244	2.5	19
190	Multilayer TiO ₂ Nanotube Formation by Two-Step Anodization. <i>Electrochemical and Solid-State Letters</i> , 2007 , 10, K28		77
189	Unexpected adsorption of oxygen on TiO ₂ nanotube arrays: influence of crystal structure. <i>Nano Letters</i> , 2007 , 7, 1091-4	11.5	72
188	Robust Self-Organization of Oxide Nanotubes over a Wide pH Range. <i>Chemistry of Materials</i> , 2007 , 19, 1534-1536	9.6	37
187	Mechanistic Aspects of the Self-Organization Process for Oxide Nanotube Formation on Valve Metals. <i>Journal of the Electrochemical Society</i> , 2007 , 154, C472	3.9	197
186	Carbon doping of self-organized TiO ₂ nanotube layers by thermal acetylene treatment. <i>Nanotechnology</i> , 2007 , 18, 105604	3.4	116
185	Self-organized, free-standing TiO ₂ nanotube membrane for flow-through photocatalytic applications. <i>Nano Letters</i> , 2007 , 7, 1286-9	11.5	654
184	Formation of Self-Organized Zirconium Titanate Nanotube Layers by Alloy Anodization. <i>Advanced Materials</i> , 2007 , 19, 1757-1760	24	102
183	Filling of TiO ₂ Nanotubes by Self-Doping and Electrodeposition. <i>Advanced Materials</i> , 2007 , 19, 3027-3031	14	260
182	Photoresponse in the visible range from Cr doped TiO ₂ nanotubes. <i>Chemical Physics Letters</i> , 2007 , 433, 323-326	2.5	157
181	Enhanced photochromism of Ag loaded self-organized TiO ₂ nanotube layers. <i>Chemical Physics Letters</i> , 2007 , 445, 233-237	2.5	111
180	Electrochemical formation of self-organized zirconium titanate nanotube multilayers. <i>Electrochemistry Communications</i> , 2007 , 9, 615-619	5.1	74
179	Flexible self-organization of two size-scales oxide nanotubes on Ti ₄₅ Nb alloy. <i>Electrochemistry Communications</i> , 2007 , 9, 2403-2407	5.1	37
178	Electrochemically assisted photocatalysis on self-organized TiO ₂ nanotubes. <i>Electrochemistry Communications</i> , 2007 , 9, 2822-2826	5.1	128
177	Control of morphology and composition of self-organized zirconium titanate nanotubes formed in (NH ₄) ₂ SO ₄ /NH ₄ F electrolytes. <i>Electrochimica Acta</i> , 2007 , 52, 4053-4061	6.7	168
176	A new route for the formation of self-organized anodic porous alumina in neutral electrolytes. <i>Electrochemistry Communications</i> , 2007 , 9, 545-550	5.1	39

175	Rapid anodic growth of TiO ₂ and WO ₃ nanotubes in fluoride free electrolytes. <i>Electrochemistry Communications</i> , 2007 , 9, 947-952	5.1	176
174	Efficient oxygen reduction on layers of ordered TiO ₂ nanotubes loaded with Au nanoparticles. <i>Electrochemistry Communications</i> , 2007 , 9, 1783-1787	5.1	145
173	Self-organized porous and tubular oxide layers on TiAl alloys. <i>Electrochemistry Communications</i> , 2007 , 9, 2397-2402	5.1	67
172	Electrochemical trench etching of silicon triggered via mechanical nanocontacts. <i>Electrochimica Acta</i> , 2007 , 53, 758-762	6.7	1
171	Self-organized TiO ₂ nanotube layers as highly efficient photocatalysts. <i>Small</i> , 2007 , 3, 300-4	11	701
170	Lithium-ion insertion in anodic TiO ₂ nanotubes resulting in high electrochromic contrast. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007 , 204, 1281-1285	1.6	66
169	250 µm long anodic TiO ₂ nanotubes with hexagonal self-ordering. <i>Physica Status Solidi - Rapid Research Letters</i> , 2007 , 1, R65-R67	2.5	263
168	Efficient solar energy conversion using TiO ₂ nanotubes produced by rapid breakdown anodization ⓧ comparison. <i>Physica Status Solidi - Rapid Research Letters</i> , 2007 , 1, 135-137	2.5	88
167	Towards ideal hexagonal self-ordering of TiO ₂ nanotubes. <i>Physica Status Solidi - Rapid Research Letters</i> , 2007 , 1, 181-183	2.5	175
166	Interfacial properties of self-organized TiO ₂ nanotubes studied by impedance spectroscopy. <i>Journal of Solid State Electrochemistry</i> , 2007 , 11, 1077-1084	2.6	60
165	Adsorption kinetics of alkanes on TiO ₂ nanotubes array ⓧ structure-activity relationship. <i>Surface Science</i> , 2007 , 601, 4620-4628	1.8	17
164	Oxidation of III-V semiconductors. <i>Corrosion Science</i> , 2007 , 49, 31-41	6.8	4
163	Characterization of electronic properties of TiO ₂ nanotube films. <i>Corrosion Science</i> , 2007 , 49, 203-210	6.8	126
162	TiO ₂ nanotubes: Self-organized electrochemical formation, properties and applications. <i>Current Opinion in Solid State and Materials Science</i> , 2007 , 11, 3-18	12	1053
161	Nanosize and vitality: TiO ₂ nanotube diameter directs cell fate. <i>Nano Letters</i> , 2007 , 7, 1686-91	11.5	1019
160	Nanotube diameter directs stem cell fate. <i>Journal of Stem Cells and Regenerative Medicine</i> , 2007 , 2, 168	0.8	2
159	Nanotube oxide coating on Ti ₉₀ Nb ₁₀ Ta _{0.6} Zr alloy prepared by self-organizing anodization. <i>Electrochimica Acta</i> , 2006 , 52, 94-101	6.7	88
158	TiO ₂ -Nb ₂ O ₅ nanotubes with electrochemically tunable morphologies. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 6993-6	16.4	160

157	Hydroxyapatite growth on anodic TiO ₂ nanotubes. <i>Journal of Biomedical Materials Research - Part A</i> , 2006 , 77, 534-41	5.4	239
156	TiO ₂ -Nb ₂ O ₅ -Nanoröhren mit elektrochemisch einstellbaren Morphologien. <i>Angewandte Chemie</i> , 2006 , 118, 7150-7153	3.6	15
155	Direct immobilization of DNA on diamond-like carbon nanodots. <i>Nanotechnology</i> , 2006 , 17, 2004-2007	3.4	13
154	Bulk micromachining of silicon using electron-beam-induced carbonaceous nanomasking. <i>Nanotechnology</i> , 2006 , 17, 5363-5366	3.4	7
153	Anodization of Ti: Formation of Self-Organized Titanium Oxide Nanotube-Layers 2006 , 179-186		1
152	Tailored Electrochemical Surface Modification of Semiconductors. <i>Materials Science Forum</i> , 2006 , 512, 129-136	0.4	4
151	Nonaqueous Viscous Electrolytes for Growth of Anodic Titania Nanotubes. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 963, 1		3
150	Anodic Oxide Nanotubes on Ti Alloys. <i>ECS Transactions</i> , 2006 , 3, 365-374	1	3
149	Anodic Porous Zirconium Oxide Prepared in Sulfuric Acid Electrolytes. <i>Materials Science Forum</i> , 2006 , 512, 205-210	0.4	5
148	Enhancement of the Electrocatalytic Oxidation of Methanol at PtRu Nanoparticles Immobilized in Different WO ₃ Matrices. <i>Electrochemical and Solid-State Letters</i> , 2006 , 9, E13		50
147	Ion Implantation and Annealing for an Efficient N-Doping of TiO ₂ Nanotubes. <i>Nano Letters</i> , 2006 , 6, 1080-1082	1.982	511
146	Photoelectrochemical properties of N-doped self-organized titania nanotube layers with different thicknesses. <i>Journal of Materials Research</i> , 2006 , 21, 2824-2828	2.5	83
145	High photocurrent conversion efficiency in self-organized porous WO ₃ . <i>Applied Physics Letters</i> , 2006 , 88, 203119	3.4	140
144	Formation of Self-Organized Zirconia Nanostructure. <i>ECS Transactions</i> , 2006 , 1, 351-357	1	3
143	Investigations on the passivity of iron in borate and phosphate buffers, pH 8.4. <i>Corrosion Science</i> , 2006 , 48, 3472-3488	6.8	44
142	Voltage Oscillations and Morphology during the Galvanostatic Formation of Self-Organized TiO ₂ Nanotubes. <i>Journal of the Electrochemical Society</i> , 2006 , 153, B137	3.9	75
141	Self-Organized Nanoporous Valve Metal Oxide Layers 2006 , 187-192		1
140	Oxygen Reduction on Passive Steel and Cr Rich Alloys for Concrete Reinforcement 2006 , 305-310		2

139	Self-organization of anodic nanotubes on two size scales. <i>Small</i> , 2006 , 2, 888-91	11	90
138	Annealing effects on the photoresponse of TiO ₂ nanotubes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, R28-R30	1.6	142
137	Smooth anodic TiO ₂ nanotubes: annealing and structure. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, R67-R69	1.6	94
136	Nanopatterning of an organic monolayer covered Si (111) surfaces by atomic force microscope scratching. <i>Electrochimica Acta</i> , 2006 , 51, 3674-3679	6.7	15
135	Anodic growth of self-organized anodic TiO ₂ nanotubes in viscous electrolytes. <i>Electrochimica Acta</i> , 2006 , 52, 1258-1264	6.7	406
134	TiO ₂ nanotube layers: Dose effects during nitrogen doping by ion implantation. <i>Chemical Physics Letters</i> , 2006 , 419, 426-429	2.5	108
133	On wafer TiO ₂ nanotube-layer formation by anodization of Ti-films on Si. <i>Chemical Physics Letters</i> , 2006 , 428, 421-425	2.5	81
132	TiO ₂ nanotubes: H ⁺ insertion and strong electrochromic effects. <i>Electrochemistry Communications</i> , 2006 , 8, 528-532	5.1	194
131	N-Doping of anodic TiO ₂ nanotubes using heat treatment in ammonia. <i>Electrochemistry Communications</i> , 2006 , 8, 544-548	5.1	226
130	TiO ₂ nanotubes: Tailoring the geometry in H ₃ PO ₄ /HF electrolytes. <i>Electrochemistry Communications</i> , 2006 , 8, 1321-1325	5.1	371
129	Selective etching of n-InP(100) triggered at surface dislocations induced by nanoscratching. <i>Electrochimica Acta</i> , 2006 , 51, 2182-2187	6.7	12
128	Organic monolayers as resist layers for Cu deposition on Si (111) surfaces. <i>Journal of Electroceramics</i> , 2006 , 16, 71-77	1.5	2
127	Electron beam lithographic techniques and electrochemical reactions for the micro- and nanostructuring of surfaces under extreme conditions. <i>Journal of Electroceramics</i> , 2006 , 16, 9-14	1.5	10
126	Potential influence on copper electrodeposition on scratched silicon surfaces. <i>Journal of Electroceramics</i> , 2006 , 16, 65-70	1.5	1
125	Influence of different fluoride containing electrolytes on the formation of self-organized titania nanotubes by Ti anodization. <i>Journal of Electroceramics</i> , 2006 , 16, 29-34	1.5	67
124	Initiation of tantalum oxide pores grown on tantalum by potentiodynamic anodic oxidation. <i>Journal of Electroceramics</i> , 2006 , 16, 35-39	1.5	26
123	Morphology of porous n-GaP anodically formed in different mineral acids. <i>Journal of Electroceramics</i> , 2006 , 16, 23-28	1.5	5
122	Maskless patterning of various kinds of metals onto porous silicon. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2005 , 202, 1571-1575	1.6	11

121	Self-Assembled Porous Tantalum Oxide Prepared in H ₂ SO ₄ /HF Electrolytes. <i>Electrochemical and Solid-State Letters</i> , 2005 , 8, J10		135
120	Enhancement and limits of the photoelectrochemical response from anodic TiO ₂ nanotubes. <i>Applied Physics Letters</i> , 2005 , 87, 243114	3.4	272
119	Porous Tantalum Oxide Prepared by Electrochemical Anodic Oxidation. <i>Journal of the Electrochemical Society</i> , 2005 , 152, C639	3.9	74
118	The composition of the boundary region of MnS inclusions in stainless steel and its relevance in triggering pitting corrosion. <i>Corrosion Science</i> , 2005 , 47, 1239-1250	6.8	140
117	Self-organized porous TiO ₂ and ZrO ₂ produced by anodization. <i>Corrosion Science</i> , 2005 , 47, 3324-3335	6.8	146
116	Initiation and Growth of Self-Organized TiO ₂ Nanotubes Anodically Formed in NH ₄ F/NH ₄ SO ₄ Electrolytes. <i>Journal of the Electrochemical Society</i> , 2005 , 152, B405	3.9	257
115	Wetting behaviour of layers of TiO ₂ nanotubes with different diameters. <i>Journal of Materials Chemistry</i> , 2005 , 15, 4488		193
114	Formation of self-organized niobium porous oxide on niobium. <i>Electrochemistry Communications</i> , 2005 , 7, 97-100	5.1	259
113	Self-organized porous WO ₃ formed in NaF electrolytes. <i>Electrochemistry Communications</i> , 2005 , 7, 295-298		227
112	Self-organized TiO ₂ nanotubes prepared in ammonium fluoride containing acetic acid electrolytes. <i>Electrochemistry Communications</i> , 2005 , 7, 576-580	5.1	204
111	Tailoring the wettability of TiO ₂ nanotube layers. <i>Electrochemistry Communications</i> , 2005 , 7, 1066-1070	5.1	226
110	Self-organized nanotubular TiO ₂ matrix as support for dispersed Pt/Ru nanoparticles: Enhancement of the electrocatalytic oxidation of methanol. <i>Electrochemistry Communications</i> , 2005 , 7, 1417-1422	5.1	206
109	Self-organized porous titanium oxide prepared in Na ₂ SO ₄ /NaF electrolytes. <i>Electrochimica Acta</i> , 2005 , 50, 3679-3684	6.7	358
108	Tip-induced nanostructuring of alloy surfaces with an electrochemical scanning tunneling microscope. <i>Surface Science</i> , 2005 , 597, 20-25	1.8	5
107	AFM scratching and metal deposition through insulating layers on silicon. <i>Surface Science</i> , 2005 , 597, 11-19	1.8	26
106	Fabrication and characterization of smooth high aspect ratio zirconia nanotubes. <i>Chemical Physics Letters</i> , 2005 , 410, 188-191	2.5	136
105	High intensity and oscillatory electroluminescence observed during porous etching of GaP in HBr and HF electrolytes. <i>Chemical Physics Letters</i> , 2005 , 414, 47-50	2.5	10
104	Self-organized high aspect ratio porous hafnium oxide prepared by electrochemical anodization. <i>Electrochemistry Communications</i> , 2005 , 7, 49-52	5.1	216

103	Titanium oxide nanotubes prepared in phosphate electrolytes. <i>Electrochemistry Communications</i> , 2005 , 7, 505-509	5.1	340
102	Dye-sensitized anodic TiO ₂ nanotubes. <i>Electrochemistry Communications</i> , 2005 , 7, 1133-1137	5.1	349
101	Challenges in the Surface Analytical Characterisation of Anodic TiO ₂ Films ▣ Review. <i>Zeitschrift Fur Physikalische Chemie</i> , 2005 , 219, 1561-1582	3.1	26
100	Self-organized nanotubular oxide layers on Ti-6Al-7Nb and Ti-6Al-4V formed by anodization in NH ₄ F solutions. <i>Journal of Biomedical Materials Research - Part A</i> , 2005 , 75, 928-33	5.4	219
99	High-aspect-ratio TiO ₂ nanotubes by anodization of titanium. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 2100-2	16.4	990
98	Smooth anodic TiO ₂ nanotubes. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 7463-5	16.4	767
97	TiO ₂ -Nanoröhren mit hohem Aspektverhältnis durch Anodisieren von Ti. <i>Angewandte Chemie</i> , 2005 , 117, 2136-2139	3.6	50
96	Glattwandige anodische TiO ₂ -Nanoröhren. <i>Angewandte Chemie</i> , 2005 , 117, 7629-7632	3.6	43
95	Environmentally assisted cracking behavior of peak-aged 7010 aluminum alloy containing scandium. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2005 , 36, 3257-3262	2.3	20
94	Electrochemical structuring of mechanically activated n-InP(100) surfaces. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005 , 2, 3359-3364		3
93	Pore formation on p-type InP(100). <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2005 , 202, 1446-1450	1.6	2
92	Self-organized high-aspect-ratio nanoporous zirconium oxides prepared by electrochemical anodization. <i>Small</i> , 2005 , 1, 722-5	11	126
91	Pore Morphology and Self-Organization Effects during Etching of n-Type GaP(100) in Bromide Solutions. <i>Electrochemical and Solid-State Letters</i> , 2005 , 8, B72		20
90	Laser-Assisted Maskless Cu Patterning on Porous Silicon. <i>Electrochemical and Solid-State Letters</i> , 2004 , 7, G98		18
89	Electron beam-treated organic monolayers as a negative resist for Cu immersion plating on Si. <i>Journal of Solid State Electrochemistry</i> , 2004 , 8, 772	2.6	3
88	Electron beam-induced modification of organic monolayers on Si(111) surfaces used for selective electrodeposition. <i>Electrochemistry Communications</i> , 2004 , 6, 153-157	5.1	28
87	Thick self-organized porous zirconium oxide formed in H ₂ SO ₄ /NH ₄ F electrolytes. <i>Electrochemistry Communications</i> , 2004 , 6, 1131-1134	5.1	174
86	Structural and optical properties of p-InP(1 0 0) anodized in halogenic acids. <i>Electrochimica Acta</i> , 2004 , 49, 1743-1749	6.7	13

85	Morphological characterization of porous InP superlattices. <i>Science and Technology of Advanced Materials</i> , 2004 , 5, 119-123	7.1	16
84	EC-STM tip induced Cd nanostructures on Au(1 1 1). <i>Surface Science</i> , 2004 , 551, L33-L39	1.8	11
83	Defect-Free AFM Scratching at the Si/SiO ₂ Interface Used for Selective Electrodeposition of Nanowires. <i>Electrochemical and Solid-State Letters</i> , 2004 , 7, A41		13
82	Factors in Electrochemical Nanostructure Fabrication Using Electron-Beam Induced Carbon Masking. <i>Journal of the Electrochemical Society</i> , 2004 , 151, G175	3.9	11
81	Growth and characterization of thin anodic oxide films on n-InSb(1 0 0) formed in aqueous solutions. <i>Corrosion Science</i> , 2004 , 46, 2067-2079	6.8	15
80	Self-organized Nucleation of Cd Island Arrays on Reconstructed Au(111) Electrode Surfaces by Underpotential Deposition. <i>Electrochemical and Solid-State Letters</i> , 2003 , 6, C63		7
79	Tip-Induced Nanostructuring of Au ₃ Cu(001) with an Electrochemical Scanning Tunneling Microscope. <i>Journal of the Electrochemical Society</i> , 2003 , 150, C111	3.9	9
78	Resistless deposition of metallic nanostructures on ion projection sensitized p-Si. <i>Microelectronic Engineering</i> , 2003 , 67-68, 175-181	2.5	4
77	Pore initiation and growth on n-InP(100). <i>Electrochimica Acta</i> , 2003 , 48, 1301-1308	6.7	15
76	Selective palladium electrochemical deposition onto AFM-scratched silicon surfaces. <i>Electrochimica Acta</i> , 2003 , 48, 3123-3130	6.7	39
75	Electrochemical formation of porous superlattices on n-type (1 0 0) InP. <i>Surface Science</i> , 2003 , 547, 268-274	1.8	30
74	Electron beam induced carbon deposition used as a negative resist for selective porous silicon formation. <i>Surface Science</i> , 2003 , 524, 40-48	1.8	33
73	Nanoscale observation of initial stages of Cd-electrodeposition on Au(). <i>Surface Science</i> , 2003 , 527, L165-L170	1.8	17
72	Nanopatterning of Si(111) surfaces by atomic force microscope scratching of an organic monolayer. <i>Electrochemistry Communications</i> , 2003 , 5, 337-340	5.1	19
71	Laser-assisted nickel deposition onto porous silicon. <i>Physica Status Solidi A</i> , 2003 , 197, 46-50		18
70	Formation of porous layers on InSb(100) by anodization. <i>Physica Status Solidi A</i> , 2003 , 197, 71-76		5
69	Selective porosification of n-InP(100) after focused ion beam implantation of Si ⁺⁺ . <i>Physica Status Solidi A</i> , 2003 , 197, 180-185		3
68	Self-Organized Porous Titanium Oxide Prepared in H ₂ SO ₄ /HF Electrolytes. <i>Electrochemical and Solid-State Letters</i> , 2003 , 6, B12		459

67	Electron Beam Induced Writing of Corrosion Protection. <i>Electrochemical and Solid-State Letters</i> , 2003 , 6, C1		7
66	From Bacon to barriers: a review on the passivity of metals and alloys. <i>Journal of Solid State Electrochemistry</i> , 2002 , 6, 145-164	2.6	188
65	Composition and growth of thin anodic oxides formed on InP (100). <i>Electrochimica Acta</i> , 2002 , 47, 2733-2740	16	
64	Selective Electrodeposition of Cu Nanostructures on Focused Ion Beam Sensitized p-Si. <i>Journal of the Electrochemical Society</i> , 2002 , 149, C432	3.9	15
63	Ion projection sensitized selective Cu electroplating on uncoated p-Si. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2002 , 20, 2713		4
62	A Semiconductor Nano-Patterning Approach Using AFM-Scratching Through Oxide Thin Layers. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 740, 1		
61	Selective Titanium Oxide Formation Using Electron-beam Induced Carbon Deposition Technique. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 741, 451		2
60	Electron-beam induced carbon deposition used as a mask for cadmium sulfide deposition on Si(100). <i>Electrochimica Acta</i> , 2001 , 47, 891-897	6.7	10
59	Selective Electrodeposition of Micropatterns on Predefined Surface Defects on p-Si(100). <i>Journal of the Electrochemical Society</i> , 2001 , 148, C177	3.9	8
58	Electron-Beam Induced Nanomasking for Metal Electrodeposition on Semiconductor Surfaces. <i>Journal of the Electrochemical Society</i> , 2001 , 148, C197	3.9	16
57	Atomic Force Microscopy-Induced Nanopatterning of Si(100) Surfaces. <i>Journal of the Electrochemical Society</i> , 2001 , 148, C640	3.9	32
56	Electron beam-induced carbon masking for electrodeposition on semiconductor surfaces. <i>Applied Physics Letters</i> , 2001 , 78, 2940-2942	3.4	45
55	Nanoscale patterning of Si(100) surfaces by scratching through the native oxide layer using atomic force microscope. <i>Applied Physics Letters</i> , 2001 , 79, 1882-1884	3.4	34
54	Cu-Nanoclusters Produced on AuCu-Alloys with an Electrochemical Scanning Tunneling Microscope. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 704, 581		2
53	Controlled and Selective Aggregation of Submicrometer Cu-Crystallites on FIB Sensitized p-Si. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 704, 7101		1
52	Nanoscale Electrochemical Deposition of Metals on FIB Sensitized p-Type Silicon. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 705, 431		1
51	Pore Formation on n-InP. <i>Physica Status Solidi A</i> , 2000 , 182, 51-61		31
50	Porous Semiconductor Micropatterns Formed on Focussed Ion Beam Implants. <i>Journal of Porous Materials</i> , 2000 , 7, 233-237	2.4	12

49	Maskless deposition of gold patterns on silicon. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2000 , 18, 3198		7
48	Selective high-resolution electrodeposition on semiconductor defect patterns. <i>Physical Review Letters</i> , 2000 , 85, 2985-8	7.4	69
47	Selective Growth of Porous Silicon on Focused Ion Beam Patterns. <i>Journal of the Electrochemical Society</i> , 2000 , 147, 2993	3.9	7
46	Pt-ion-implantation-induced suppression of leakage conduction in Pt/Pb)(ZrxTi1-x)O3/Pt capacitors. <i>Integrated Ferroelectrics</i> , 1999 , 23, 191-198	0.8	1
45	Characterisation of r.f. sputtered Fe ₃ O ₄ -oxide films. <i>Vacuum</i> , 1999 , 52, 477-483	3.7	7
44	Optical properties of porous GaAs. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 1999 , 4, 102-110	3.10	64
43	Visible Light Emission from Silicon Nanostructures. <i>Physica Status Solidi (B): Basic Research</i> , 1999 , 215, 297-300	1.3	
42	Passivity of Iron in Alkaline Solutions Studied by In Situ XANES and a Laser Reflection Technique. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 2097-2102	3.9	45
41	Nature and growth of anodic and thermal oxides on GaAs and Al _x Ga _{1-x} As. <i>Corrosion Science</i> , 1999 , 41, 1467-1474	6.8	8
40	Electrochemical Behavior of Fe in Phosphate Solutions Studied by In Situ X-Ray Absorption Near Edge Structure. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 4087-4094	3.9	22
39	Cathodic electrodeposition of mixed oxide/hydroxide precursor for lead-zirconate titanate thin films. <i>Ferroelectrics</i> , 1999 , 225, 311-318	0.6	
38	Predefined Initiation of Porous GaAs Using Focused Ion Beam Surface Sensitization. <i>Journal of the Electrochemical Society</i> , 1999 , 146, 735-740	3.9	26
37	A light reflectance technique for thickness measurements of passive films. <i>Electrochimica Acta</i> , 1998 , 43, 635-637	6.7	6
36	Comparison of the Semiconductive Properties of Sputter-Deposited Iron Oxides with the Passive Film on Iron. <i>Journal of the Electrochemical Society</i> , 1998 , 145, 378-385	3.9	75
35	Characterization of r.f.-sputtered iron oxide films for modeling passive films. <i>Thin Solid Films</i> , 1998 , 312, 46-60	2.2	24
34	Formation of visible light emitting porous GaAs micropatterns. <i>Applied Physics Letters</i> , 1998 , 72, 1039-1041	3.4	53
33	Iron Passivity in Borate Buffer: Formation of a Deposit Layer and Its Influence on the Semiconducting Properties. <i>Journal of the Electrochemical Society</i> , 1998 , 145, 609-614	3.9	61
32	Light Emitting Micropatterns of Porous Si Created at Surface Defects. <i>Physical Review Letters</i> , 1998 , 80, 4060-4063	7.4	89

31	Red luminescence from a focused ion beam modified silicon surface. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1998 , 16, 3301		2
30	Direct micropatterning of Si and GaAs using electrochemical development of focused ion beam implants. <i>Applied Physics Letters</i> , 1998 , 73, 2600-2602	3.4	12
29	Electrochemical Behavior of Cr ₂ O ₃ / Fe ₂ O ₃ Artificial Passive Films Studied by In Situ XANES. <i>Journal of the Electrochemical Society</i> , 1998 , 145, 791-801	3.9	80
28	Light Emitting Micropatterns of Porous Semiconductors. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 536, 3		
27	Printing halftone photographic images on diamond by focused silicon ion implantation. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1997 , 15, 2358		6
26	Formation and Dissolution of the Passive Film on Iron Studied by a Light Reflectance Technique. <i>Journal of the Electrochemical Society</i> , 1997 , 144, 2307-2312	3.9	43
25	Surface topology of GaAs(100) after focused ion beam implantation of Si ⁺⁺ . <i>Applied Physics Letters</i> , 1997 , 70, 1305-1307	3.4	14
24	Dissolution of Thin Iron Oxide Films Used as Models for Iron Passive Films Studied by In Situ X-Ray Absorption Near-Edge Spectroscopy. <i>Journal of the Electrochemical Society</i> , 1997 , 144, 198-204	3.9	42
23	A surface analytical and electrochemical study on the role of cerium in the chemical surface treatment of stainless steels. <i>Corrosion Science</i> , 1997 , 39, 1897-1913	6.8	40
22	Initiation and Formation of Porous GaAs. <i>Journal of the Electrochemical Society</i> , 1996 , 143, 3316-3322	3.9	120
21	Visible photoluminescence from porous GaAs. <i>Applied Physics Letters</i> , 1996 , 69, 1620-1622	3.4	101
20	In Situ X-Ray Absorption Near-Edge Spectroscopic Study of the Cathodic Reduction of Artificial Iron Oxide Passive Films. <i>Journal of the Electrochemical Society</i> , 1996 , 143, 574-582	3.9	72
19	Transpassive Dissolution of Cr and Sputter-Deposited Cr Oxides Studied by In Situ X-Ray Near-Edge Spectroscopy. <i>Journal of the Electrochemical Society</i> , 1996 , 143, 3997-4005	3.9	64
18	Formation and Properties of Porous GaAs. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 431, 439		17
17	Thin anodic oxides formed on GaAs in aqueous solutions. <i>Journal of Applied Physics</i> , 1996 , 79, 7303-7312	2.5	42
16	Thickness measurements of thin anodic oxides on GaAs using atomic force microscopy, profilometry, and secondary ion mass spectrometry. <i>Applied Physics Letters</i> , 1996 , 68, 2675-2677	3.4	2
15	Growth and characterization of anodic oxides on Si(100) formed in 0.1 M hydrochloric acid. <i>Journal of Applied Physics</i> , 1996 , 79, 8761-8769	2.5	24
14	Physical and Electrical Characterization of Thin Anodic Oxides on Si(100). <i>Journal of the Electrochemical Society</i> , 1995 , 142, 3933-3940	3.9	8

13	Bulk Metal Oxides as a Model for the Electronic Properties of Passive Films. <i>Journal of the Electrochemical Society</i> , 1995 , 142, 3336-3342	3.9	52
12	Light Induced Inhibition of Local Passivity Breakdown. <i>Materials Science Forum</i> , 1995 , 185-188, 1065-1074.	4.4	3
11	In Situ Characterization of Anodic Silicon Oxide Films by AC Impedance Measurements. <i>Journal of the Electrochemical Society</i> , 1995 , 142, 1705-1712	3.9	69
10	Artificial Cr- and Fe-Oxide Passive Layers Prepared by Sputter Deposition. <i>Journal of the Electrochemical Society</i> , 1995 , 142, 3067-3972	3.9	40
9	Illumination effects on the stability of the passive film on iron. <i>Electrochimica Acta</i> , 1995 , 40, 775-783	6.7	77
8	Large Area Photocurrent Behavior and Laser Spot Scanning of Passivated Stainless Steels. <i>Journal of the Electrochemical Society</i> , 1994 , 141, 362-366	3.9	12
7	A Photoelectrochemical Investigation of Passive Films Formed by Alternating Voltage Passivation. <i>Journal of the Electrochemical Society</i> , 1993 , 140, L119-L121	3.9	16
6	Passivity of High Corrosion Resistant Cu-Al-Sn Alloys. <i>Journal of the Electrochemical Society</i> , 1993 , 140, 2786-2790	3.9	11
5	Metastable Pitting and Semiconductive Properties of Passive Films. <i>Journal of the Electrochemical Society</i> , 1992 , 139, 1908-1913	3.9	121
4	Halbleitereigenschaften von Passivfilmen und ihre Bedeutung für die Lochkorrosion. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 1991 , 42, 203-207	1.6	19
3	On the stability of rivulet flow. <i>Journal of Fluid Mechanics</i> , 1990 , 215, 125	3.7	65
2	A Few Pt Single Atoms Are Responsible for the Overall Co-Catalytic Activity in Pt/TiO ₂ Photocatalytic H ₂ Generation. <i>Solar Rrl</i> , 2101026	7.1	5
1	Chapter 3: Electrochemistry at TiO ₂ nanotubes and other semiconductor nanostructures. <i>SPR Electrochemistry</i> , 87-131		6