

Kiyoung Lee

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/8345650/kiyoung-lee-publications-by-year.pdf>
Version: 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

135 papers	8,015 citations	37 h-index	88 g-index
148 ext. papers	8,704 ext. citations	7.3 avg, IF	6.2 L-index

#	Paper	IF	Citations
135	Electrochemical characteristic assessments toward 2,4,6-trinitrotoluene using anodic TiO ₂ nanotube arrays. <i>Electrochemistry Communications</i> , 2022 , 135, 107214	5.1	1
134	Decoration of X ₂ C nanoparticles on CdS nanostructures for highly efficient photocatalytic wastewater treatment under visible light. <i>Applied Surface Science</i> , 2022 , 583, 152533	6.7	0
133	Controlled synthesis and structural modulation to boost intrinsic photocatalytic activity of BiVO ₄ . <i>CrystEngComm</i> , 2022 , 24, 2686-2696	3.3	0
132	Nanostructured cobalt-based metal-organic framework/cadmium sulfide electrocatalyst for enhanced oxygen evolution reaction and anion exchange membrane-based water electrolysis: Synergistic effect. <i>Journal of Power Sources</i> , 2022 , 527, 231151	8.9	2
131	Chemical-bath-deposited rutile TiO ₂ film for electrochemical detection of 2,4,6-trinitrotoluene. <i>Thin Solid Films</i> , 2022 , 748, 139172	2.2	1
130	Upgraded charge transport in g-C ₃ N ₄ nanosheets by boron doping and their heterojunction with 3D CdIn ₂ S ₄ for efficient photodegradation of azo dye. <i>Materials Today Chemistry</i> , 2022 , 24, 100857	6.2	
129	Enhanced light absorption and charge separation of In-doped ZnO nanorod arrays for photoelectrochemical water-splitting application. <i>International Journal of Energy Research</i> , 2022 , 46, 6264-6276	4.5	2
128	Boosting the oxygen evolution reaction performance of wrinkled Mn(OH) ₂ via conductive activation with a carbon binder. <i>Journal of Energy Chemistry</i> , 2022 , 71, 580-587	12	1
127	Photoelectrochemical water oxidation in anodic TiO ₂ nanotubes array: Importance of mass transfer. <i>Electrochemistry Communications</i> , 2021 , 132, 107133	5.1	0
126	Sonochemically synthesized nanostructured ternary electrode material for coin-cell-type supercapacitor applications. <i>FlatChem</i> , 2021 , 30, 100304	5.1	1
125	Efficient synthetic approach for nanoporous adsorbents capable of pre- and post-combustion CO ₂ capture and selective gas separation. <i>Journal of CO₂ Utilization</i> , 2021 , 45, 101404	7.6	15
124	Tailoring the Composition of Ternary Layered Double Hydroxides for Supercapacitors and Electrocatalysis. <i>Energy & Fuels</i> , 2021 , 35, 9660-9668	4.1	6
123	Electrochemical Anodic Formation of VO ₂ Nanotubes and Hydrogen Sorption Property. <i>Journal of Electrochemical Science and Technology</i> , 2021 , 12, 212-216	3.2	0
122	Formation of aluminum oxide nanostructures via anodization of Al3104 alloy and their wettability behavior for self-cleaning application. <i>Catalysis Today</i> , 2021 , 359, 50-56	5.3	4
121	Boosted photocatalytic hydrogen evolution by tuning inner pore size and co-catalyst thickness of the anodic TiO ₂ nanotubes. <i>Catalysis Today</i> , 2021 , 359, 3-8	5.3	8
120	Optimization of N doping in TiO nanotubes for the enhanced solar light mediated photocatalytic H ₂ production and dye degradation. <i>Environmental Pollution</i> , 2021 , 269, 116170	9.3	22
119	Mesoporous design of ultrathin NiO nanosheet-coated vertically aligned hexagonal CoS nanoplate core-shell array for flexible all-solid-state supercapacitors. <i>Journal of Alloys and Compounds</i> , 2021 , 863, 158064	5.7	3

118	Electric field-driven one-step formation of vertical p-n junction TiO ₂ nanotubes exhibiting strong photocatalytic hydrogen production. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 2239-2247	13	6
117	Photoelectrochemical H ₂ evolution on WO ₃ /BiVO ₄ enabled by single-crystalline TiO ₂ overlayer modulations. <i>Nanoscale</i> , 2021 , 13, 16932-16941	7.7	1
116	Energy and environmental applications of Sn/Ti doped BiFeO ₃ /CuO/CuO photoanode under optimized photoelectrochemical conditions. <i>Environmental Pollution</i> , 2021 , 271, 116318	9.3	3
115	Monodispersed core/shell nanospheres of ZnS/NiO with enhanced H ₂ generation and quantum efficiency at versatile photocatalytic conditions. <i>Journal of Hazardous Materials</i> , 2021 , 413, 125359	12.8	14
114	Mesostructured g-C ₃ N ₄ nanosheets interconnected with V ₂ O ₅ nanobelts as electrode for coin-cell-type-asymmetric supercapacitor device. <i>Materials Today Energy</i> , 2021 , 21, 100699	7	16
113	Controlling the geometric design of anodic 1D TiO ₂ nanotubes for the electrochemical reduction of 2,4,6-trinitrotoluene in ambient conditions. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 900, 115717	4.1	1
112	Enhancement of photoelectrochemical properties with Bi ₂ FeO ₅ on surface modified FTO substrates. <i>Ceramics International</i> , 2020 , 46, 20012-20019	5.1	9
111	Self-assembly of NiMoO ₄ nanoparticles on the ordered NiCo ₂ O ₄ ultra-thin nanoflakes core-shell electrode for high energy density supercapacitors and efficient oxygen evolution reaction. <i>Ceramics International</i> , 2020 , 46, 22837-22845	5.1	13
110	Electrochemical detection of 2,4,6-trinitrotoluene reduction in aqueous solution by using highly ordered 1D TiO ₂ nanotube arrays. <i>Materials Today Communications</i> , 2020 , 25, 101389	2.5	4
109	Facile synthesis of Ce-doped Bi ₂ Coalt hydroxide nanoflakes battery type electrode with an enhanced capacitive contribution for asymmetric supercapacitors. <i>Journal of Energy Storage</i> , 2020 , 28, 101227	7.8	10
108	Phase-tuned nanoporous vanadium pentoxide as binder-free cathode for lithium ion battery. <i>Electrochimica Acta</i> , 2020 , 330, 135192	6.7	12
107	Highly reversible crystal transformation of anodized porous V ₂ O ₅ nanostructures for wide potential window high-performance supercapacitors. <i>Electrochimica Acta</i> , 2020 , 334, 135618	6.7	13
106	Electrochromic and pseudocapacitive behavior of hydrothermally grown WO ₃ nanostructures. <i>Thin Solid Films</i> , 2020 , 709, 138214	2.2	5
105	Effective synthesis route of renewable nanoporous carbon adsorbent for high energy gas storage and CO ₂ /N ₂ selectivity. <i>Renewable Energy</i> , 2020 , 161, 30-42	8.1	14
104	Microwave synthesized nano-photosensitizer of CdS QD/MoO ₃ /g-C ₃ N ₄ heterojunction catalyst for hydrogen evolution under full-spectrum light. <i>Ceramics International</i> , 2020 , 46, 28467-28480	5.1	22
103	Biobased derived nanoporous carbon for hydrogen isotope separation. <i>Microporous and Mesoporous Materials</i> , 2020 , 304, 109291	5.3	9
102	Flexible nanoporous activated carbon cloth for achieving high H ₂ , CH ₄ , and CO ₂ storage capacities and selective CO ₂ /CH ₄ separation. <i>Chemical Engineering Journal</i> , 2020 , 379, 122367	14.7	40
101	Interfacial growth of the optimal BiVO ₄ nanoparticles onto self-assembled WO ₃ nanoplates for efficient photoelectrochemical water splitting. <i>Journal of Colloid and Interface Science</i> , 2019 , 557, 478-487	9.3	27

100	Redox-state modulated ORR activity of Cd-based Prussian blue analog frameworks transformed via anion exchange with controlled redox-state from CdCO ₃ cuboids. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 847, 113179	4.1	8
99	ZnO Colloidal Nanocrystal Clusters as Efficient and Durable Bifunctional Electrocatalysts For Full Water Splitting. <i>ChemNanoMat</i> , 2019 , 5, 761-765	3.5	11
98	Insights into the interfacial nanostructuring of NiCoS and their electrochemical activity for ultra-high capacity all-solid-state flexible asymmetric supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2019 , 557, 423-437	9.3	19
97	Recent advances in water-splitting electrocatalysts based on manganese oxide. <i>Carbon Resources Conversion</i> , 2019 , 2, 242-255	4.7	13
96	Single-Step Anodization for the Formation of WO ₃ -Doped TiO ₂ Nanotubes Toward Enhanced Electrochromic Performance. <i>ChemElectroChem</i> , 2018 , 5, 3379-3382	4.3	7
95	Sustainable nanoporous carbon for CO ₂ , CH ₄ , N ₂ , H ₂ adsorption and CO ₂ /CH ₄ and CO ₂ /N ₂ separation. <i>Energy</i> , 2018 , 158, 9-16	7.9	32
94	A facile synthesis tool of nanoporous carbon for promising H ₂ , CO ₂ , and CH ₄ sorption capacity and selective gas separation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 23087-23100	13	29
93	Catalyst-Doped Anodic TiO ₂ Nanotubes: Binder-Free Electrodes for (Photo)Electrochemical Reactions. <i>Catalysts</i> , 2018 , 8, 555	4	23
92	Self-sealing anodization approach to enhance micro-Vickers hardness and corrosion protection of a die cast Al alloy. <i>Journal of Physics and Chemistry of Solids</i> , 2017 , 103, 87-94	3.9	8
91	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
90	Influence of geometry and crystal structures of TiO ₂ nanotubes on micro Vickers hardness. <i>Materials Letters</i> , 2017 , 192, 137-141	3.3	3
89	Understanding the Formation of Anodic Nanoporous TiO ₂ Structures in a Hot Glycerol/Phosphate Electrolyte. <i>Journal of the Electrochemical Society</i> , 2017 , 164, E5-E10	3.9	1
88	Crystallization of Amorphous TiO ₂ Nanotubes: A Real-Time Synchrotron X-ray Scattering Study. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 7824-7827	1.3	
87	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
86	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
85	Partially unzipped carbon nanotubes for high-rate and stable lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 819-826	13	66
84	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
83	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

82	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
81	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
80	Topographical study of TiO ₂ nanostructure surface for photocatalytic hydrogen production. <i>Electrochimica Acta</i> , 2015 , 179, 423-430	6.7	22
79	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
78	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
77	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
76	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
75	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
74	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
73	Self-organized cobalt fluoride nanochannel layers used as a pseudocapacitor material. <i>Chemical Communications</i> , 2014 , 50, 7067-70	5.8	16
72	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
71	One-dimensional titanium dioxide nanomaterials: nanotubes. <i>Chemical Reviews</i> , 2014 , 114, 9385-454	68.1	885
70	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
69	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
68	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
67	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
66	Controlled Thermal Annealing Tunes the Photoelectrochemical Properties of Nanochanneled Tin-Oxide Structures. <i>ChemElectroChem</i> , 2014 , 1, 1133-1137	4.3	22
65	Tuning the Selectivity of Photocatalytic Synthetic Reactions Using Modified TiO ₂ Nanotubes. <i>Angewandte Chemie</i> , 2014 , 126, 12813-12816	3.6	25

64	Highly ordered TiO ₂ nanotube-stumps with memristive response. <i>Electrochemistry Communications</i> , 2013 , 34, 177-180	5.1	34
63	Excited state properties of anodic TiO ₂ nanotubes. <i>Applied Physics Letters</i> , 2013 , 102, 233109	3.4	18
62	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
61	Anodic TiO ₂ nanotubes: double walled vs. single walled. <i>Faraday Discussions</i> , 2013 , 164, 107-16	3.6	49
60	Bottom sealing and photoelectrochemical properties of different types of anodic TiO ₂ nanotubes. <i>Electrochimica Acta</i> , 2013 , 100, 229-235	6.7	13
59	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
58	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
57	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
56	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
55	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
54	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
53	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
52	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
51	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
50	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
49	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
48	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
47	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

46	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
45	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
44	Anodic formation of self-organized cobalt oxide nanoporous layers. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 2077-81	16.4	62
43	Anodic Formation of Self-Organized Cobalt Oxide Nanoporous Layers. <i>Angewandte Chemie</i> , 2013 , 125, 2131-2135	3.6	10
42	Small diameter TiO ₂ nanotubes vs. nanopores in dye sensitized solar cells. <i>Electrochemistry Communications</i> , 2012 , 15, 1-4	5.1	62
41	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
40	Flame annealing effects on self-organized TiO ₂ nanotubes. <i>Electrochimica Acta</i> , 2012 , 66, 12-21	6.7	36
39	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
38	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
37	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
36	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
35	Anodic TiO ₂ nanotubes: Influence of top morphology on their photocatalytic performance. <i>Electrochemistry Communications</i> , 2012 , 22, 162-165	5.1	50
34	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
33	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
32	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
31	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
30	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
29	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

28	Anodically formed transparent mesoporous TiO ₂ electrodes for high electrochromic contrast. <i>Journal of Materials Chemistry</i> , 2012 , 22, 9821		36
27	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
26	Anodic formation of high aspect ratio, self-ordered Nb ₂ O ₅ nanotubes. <i>Chemical Communications</i> , 2012 , 48, 4244-6	5.8	59
25	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
24	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
23	Formation of highly ordered nanochannel Nb oxide by self-organizing anodization. <i>Chemistry - A European Journal</i> , 2012 , 18, 9521-4	4.8	31
22	Photoelectrochemical Properties of Anodic TiO ₂ Nanosponge Layers. <i>ECS Electrochemistry Letters</i> , 2012 , 2, H9-H11		9
21	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
20	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
19	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
18	Improved water-splitting behaviour of flame annealed TiO ₂ nanotubes. <i>Electrochemistry Communications</i> , 2011 , 13, 1030-1034	5.1	37
17	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
16	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
15	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
14	TiO ₂ nanotubes and their application in dye-sensitized solar cells. <i>Nanoscale</i> , 2010 , 2, 45-59	7.7	516
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
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
11	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

10	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
9	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
8	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
7	Fabrication of epitaxial nanostructured ferroelectrics and investigation of their domain structures. <i>Journal of Materials Science</i> , 2009 , 44, 5167-5181	4.3	16
6	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
5	Magnetoelectric complex-oxide heterostructures. <i>Philosophical Magazine Letters</i> , 2007 , 87, 155-164	1	9
4	Label-Free and Self-Signal Amplifying Molecular DNA Sensors Based on Bioconjugated Polyelectrolytes. <i>Advanced Functional Materials</i> , 2007 , 17, 2580-2587	15.6	107
3	Efficient tandem polymer solar cells fabricated by all-solution processing. <i>Science</i> , 2007 , 317, 222-5	33.3	2957
2	Domain structure of epitaxial PbTiO ₃ thin films on Pt(001)/MgO(001) substrates. <i>Journal of Applied Physics</i> , 2004 , 95, 236-240	2.5	28
1	Phase Separated Microstructure and Its Stability in InGaAs Epitaxial Layers Grown by LPE. <i>Materials Research Society Symposia Proceedings</i> , 1993 , 326, 109		