Nhat Truong Nguyen

List of Publications by Year
in descending order

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64 papers	2,929 citations	126907 33 h-index	168389 53 g-index
68 all docs	68 docs citations	68 times ranked	4129 citing authors

#	Article	IF	Citations
1	Anodic TiO2 nanotube layers: Why does self-organized growth occurâ€"A mini review. Electrochemistry Communications, 2014, 46, 157-162.	4.7	165
2	Tantalum Nitride Nanorod Arrays: Introducing Niâ€"Fe Layered Double Hydroxides as a Cocatalyst Strongly Stabilizing Photoanodes in Water Splitting. Chemistry of Materials, 2015, 27, 2360-2366.	6.7	158
3	Efficient Photocatalytic H₂ Evolution: Controlled Dewettingâ€"Dealloying to Fabricate Siteâ€Selective Highâ€Activity Nanoporous Au Particles on Highly Ordered TiO₂ Nanotube Arrays. Advanced Materials, 2015, 27, 3208-3215.	21.0	140
4	Aligned metal oxide nanotube arrays: key-aspects of anodic TiO₂nanotube formation and properties. Nanoscale Horizons, 2016, 1, 445-466.	8.0	129
5	Bismuth atom tailoring of indium oxide surface frustrated Lewis pairs boosts heterogeneous CO2 photocatalytic hydrogenation. Nature Communications, 2020, 11, 6095.	12.8	129
6	TiO₂ Nanotubes: Nitrogenâ€Ion Implantation at Low Dose Provides Nobleâ€Metalâ€Free Photocatalytic H₂â€Evolution Activity. Angewandte Chemie - International Edition, 2016, 55, 3763-3767.	13.8	119
7	Strongly Enhanced Water Splitting Performance of Ta₃N₅ Nanotube Photoanodes with Subnitrides. Advanced Materials, 2016, 28, 2432-2438.	21.0	106
8	Templated dewetting: designing entirely self-organized platforms for photocatalysis. Chemical Science, 2016, 7, 6865-6886.	7.4	98
9	Hematite Photoanodes: Synergetic Enhancement of Light Harvesting and Charge Management by Sandwiched with Fe₂TiO₅/Fe₂O₃/Pt Structures. Advanced Functional Materials, 2017, 27, 1703527.	14.9	96
10	Plasmon-induced hole-depletion layer on hematite nanoflake photoanodes for highly efficient solar water splitting. Nano Energy, 2017, 35, 171-178.	16.0	93
11	A Cocatalytic Electronâ€Transfer Cascade Siteâ€Selectively Placed on TiO₂ Nanotubes Yields Enhanced Photocatalytic H₂ Evolution. Advanced Functional Materials, 2018, 28, 1704259.	14.9	83
12	Noble Metals on Anodic TiO₂ Nanotube Mouths: Thermal Dewetting of Minimal Pt Coâ€Catalyst Loading Leads to Significantly Enhanced Photocatalytic H₂ Generation. Advanced Energy Materials, 2016, 6, 1501926.	19.5	72
13	â€œSuspendedâ€•Pt nanoparticles over TiO₂ nanotubes for enhanced photocatalytic H₂ evolution. Chemical Communications, 2014, 50, 9653-9656.	4.1	67
14	Spaced TiO₂ nanotube arrays allow for a high performance hierarchical supercapacitor structure. Journal of Materials Chemistry A, 2017, 5, 1895-1901.	10.3	62
15	Black Magic in Gray Titania: Nobleâ€Metalâ€Free Photocatalytic H₂ Evolution from Hydrogenated Anatase. ChemSusChem, 2017, 10, 62-67.	6.8	61
16	Enhanced Solar Water Splitting by Swift Charge Separation in Au/FeOOH Sandwiched Singleâ€Crystalline Fe₂O₃ Nanoflake Photoelectrodes. ChemSusChem, 2017, 10, 2720-2727.	6.8	60
17	Highly Conducting Spaced TiO₂ Nanotubes Enable Defined Conformal Coating with Nanocrystalline Nb₂O₅ and High Performance Supercapacitor Applications. Small, 2017, 13, 1603821.	10.0	57
18	Photoelectrochemical H₂ Generation from Suboxide TiO₂ Nanotubes: Visibleâ€Light Absorption versus Conductivity. Chemistry - A European Journal, 2017, 23, 12406-12411.	3.3	51

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19	Effects of low oxygen annealing on the photoelectrochemical water splitting properties of Î±-Fe₂O₃. Journal of Materials Chemistry A, 2020, 8, 1315-1325.	10.3	48
20	Plasmonâ€Enhanced Photoelectrochemical Water Splitting Using Au Nanoparticles Decorated on Hematite Nanoflake Arrays. ChemSusChem, 2015, 8, 618-622.	6.8	46
21	Activation of Î±â€Fe₂O₃ for Photoelectrochemical Water Splitting Strongly Enhanced by Low Temperature Annealing in Low Oxygen Containing Ambient. Chemistry - A European Journal, 2020, 26, 2685-2692.	3.3	46
22	Ideally ordered porous TiO2 prepared by anodization of pretextured Ti by nanoimprinting process. Electrochemistry Communications, 2015, 50, 73-76.	4.7	44
23	Enhanced Charge Transport in Tantalum Nitride Nanotube Photoanodes for Solar Water Splitting. ChemSusChem, 2015, 8, 2615-2620.	6.8	40
24	Use of Anodic TiO₂ Nanotube Layers as Mesoporous Scaffolds for Fabricating CH₃NH₃PbI₃ Perovskiteâ€Based Solidâ€State Solar Cells. ChemElectroChem, 2015, 2, 824-828.	3.4	39
25	Semimetallic core-shell TiO 2 nanotubes as a high conductivity scaffold and use in efficient 3D-RuO 2 supercapacitors. Materials Today Energy, 2017, 6, 46-52.	4.7	39
26	Stable Coâ€Catalystâ€Free Photocatalytic H₂ Evolution From Oxidized Titanium Nitride Nanopowders. Angewandte Chemie - International Edition, 2015, 54, 13385-13389.	13.8	38
27	Controlled spacing of self-organized anodic TiO2 nanotubes. Electrochemistry Communications, 2016, 69, 76-79.	4.7	38
28	Nanoporous AuPt and AuPtAg alloy co-catalysts formed by dewettingâ€“dealloying on an ordered TiO₂ nanotube surface lead to significantly enhanced photocatalytic H₂ generation. Journal of Materials Chemistry A, 2018, 6, 13599-13606.	10.3	37
29	Forming a Highly Active, Homogeneously Alloyed AuPt Co-catalyst Decoration on TiO₂ Nanotubes Directly During Anodic Growth. ACS Applied Materials & Interfaces, 2018, 10, 18220-18226.	8.0	37
30	Aminated TiO 2 nanotubes as a photoelectrochemical water splitting photoanode. Catalysis Today, 2017, 281, 189-197.	4.4	35
31	Li⁺ Preâ€Insertion Leads to Formation of Solid Electrolyte Interface on TiO₂ Nanotubes That Enables Highâ€Performance Anodes for Sodium Ion Batteries. Advanced Energy Materials, 2020, 10, 1903448.	19.5	35
32	Enhanced CO₂ Photocatalysis by Indium Oxide Hydroxide Supported on TiN@TiO₂ Nanotubes. Nano Letters, 2021, 21, 1311-1319.	9.1	35
33	Fast growth of TiO 2 nanotube arrays with controlled tube spacing based on a self-ordering process at two different scales. Electrochemistry Communications, 2017, 77, 98-102.	4.7	34
34	A Facile Surface Passivation of Hematite Photoanodes with Iron Titanate Cocatalyst for Enhanced Water Splitting. ChemSusChem, 2016, 9, 2048-2053.	6.8	33
35	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. Electrochemistry Communications, 2017, 79, 46-50.	4.7	33
36	Plasmonic Titanium Nitride Facilitates Indium Oxide CO₂ Photocatalysis. Small, 2020, 16, e2005754.	10.0	32

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37	TiO2nanotubes with laterally spaced ordering enable optimized hierarchical structures with significantly enhanced photocatalytic H2generation. Nanoscale, 2016, 8, 16868-16873.	5.6	30
38	High-performance hydrogen evolution electrocatalysis using proton-intercalated TiO₂ nanotube arrays as interactive supports for Ir nanoparticles. Journal of Materials Chemistry A, 2020, 8, 22773-22790.	10.3	29
39	Anodic Titanium Dioxide Nanotubes for Magnetically Guided Therapeutic Delivery. Scientific Reports, 2019, 9, 13439.	3.3	28
40	High temperature oxidation behaviour of AISI 321 stainless steel with an ultrafine-grained surface at 800â€¯Â°C in Arâ€“20 vol.% O2. Corrosion Science, 2020, 163, 108282.	6.6	28
41	Providing significantly enhanced photocatalytic H2 generation using porous PtPdAg alloy nanoparticles on spaced TiO2 nanotubes. International Journal of Hydrogen Energy, 2019, 44, 22962-22971.	7.1	27
42	TiO₂ Nanotubes: Nitrogenâ€Ion Implantation at Low Dose Provides Nobleâ€Metalâ€Free Photocatalytic H₂â€Evolution Activity. Angewandte Chemie, 2016, 128, 3827-3831.	2.0	26
43	Optimized Spacing between TiO₂ Nanotubes for Enhanced Light Harvesting and Charge Transfer. ChemElectroChem, 2018, 5, 3183-3190.	3.4	26
44	Dewetted Au Nanoparticles on TiO₂ Surfaces: Evidence of a Size-Independent Plasmonic Photoelectrochemical Response. Journal of Physical Chemistry C, 2019, 123, 16934-16942.	3.1	26
45	Hematite dodecahedron crystals with high-index facets grown and grafted on one dimensional structures for efficient photoelectrochemical H2 generation. Nano Energy, 2018, 50, 331-338.	16.0	25
46	Intrinsic AuPt-alloy particles decorated on TiO2 nanotubes provide enhanced photocatalytic degradation. Electrochimica Acta, 2018, 292, 865-870.	5.2	24
47	A direct synthesis of platinum/nickel co-catalysts on titanium dioxide nanotube surface from hydrometallurgical-type process streams. Journal of Cleaner Production, 2018, 201, 39-48.	9.3	24
48	Intrinsic Au-decoration on anodic TiO2 nanotubes grown from metastable Tiâ€“Au sputtered alloysâ€”High density co-catalyst decoration enhances the photocatalytic H2 evolution. Applied Materials Today, 2019, 14, 118-125.	4.3	21
49	Formation behavior of nanoporous anodic aluminum oxide films in hot glycerol/phosphate electrolyte. Electrochimica Acta, 2012, 83, 288-293.	5.2	19
50	Fabrication of ideally ordered anodic porous TiO 2 by anodization of pretextured two-layered metals. Electrochemistry Communications, 2016, 72, 100-103.	4.7	18
51	Longâ€Living Holes in Grey Anatase TiO₂ Enable Nobleâ€Metalâ€Free and Sacrificialâ€Agentâ€Free Water Splitting. ChemSusChem, 2020, 13, 4937-4944.	6.8	18
52	Doubleâ€Side Coâ€Catalytic Activation of Anodic TiO₂ Nanotube Membranes with Sputterâ€Coated Pt for Photocatalytic H₂ Generation from Water/Methanol Mixtures. Chemistry - an Asian Journal, 2017, 12, 314-323.	3.3	17
53	MoP-protected Mo oxide nanotube arrays for long-term stable supercapacitors. Applied Materials Today, 2019, 17, 227-235.	4.3	17
54	Amorphous Moâ€“Ta Oxide Nanotubes for Long-Term Stable Mo Oxide-Based Supercapacitors. ACS Applied Materials & Interfaces, 2019, 11, 45665-45673.	8.0	14

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55	Extended self-ordering regime in hard anodization and its application to make asymmetric AAO membranes for large pitch-distance nanostructures. Nanotechnology, 2013, 24, 505304.	2.6	13
56	Synthesis of free-standing Ta₃N₅nanotube membranes and flow-through visible light photocatalytic applications. Chemical Communications, 2017, 53, 11763-11766.	4.1	13
57	Spaced TiO₂ Nanotubes Enable Optimized Pt Atomic Layer Deposition for Efficient Photocatalytic H₂ Generation. ChemistryOpen, 2018, 7, 797-802.	1.9	12
58	A High-Field Anodic NiO Nanosponge with Tunable Thickness for Application in p-Type Dye-Sensitized Solar Cells. ACS Applied Energy Materials, 2020, 3, 7865-7872.	5.1	9
59	Two-dimensional photonic crystals based on anodic porous TiO₂ with ideally ordered hole arrangement. Applied Physics Express, 2016, 9, 102001.	2.4	7
60	Efficient Preparation Process for TiO₂ Through-Hole Membranes with Ordered Hole Arrangements. Journal of the Electrochemical Society, 2018, 165, E763-E767.	2.9	6
61	Hierarchical decoration of anodic TiO2 nanorods for enhanced photocatalytic degradation properties. Electrochimica Acta, 2015, 155, 244-250.	5.2	5
62	Spaced Titania Nanotube Arrays Allow the Construction of an Efficient Nâ€Ðoped Hierarchical Structure for Visibleâ€Ŀight Harvesting. ChemistryOpen, 2018, 7, 131-135.	1.9	5
63	Magnetiteâ€free Snâ€doped hematite nanoflake layers for enhanced photoelectrochemical water splitting. ChemElectroChem, 0, , .	3.4	2
64	On the material characteristics of a high carbon cast austenitic stainless steel after solution annealing followed by quenching in a CNT nanofluid. International Journal of Materials Research, 2019, 110, 570-576.	0.3	1