

Chiaki TERASHIMA

List of Publications by Year in descending order

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62
papers

3,591
citations

136950

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63
times ranked

5262
citing authors

#	ARTICLE	IF	CITATIONS
1	ZnO/ZnS-Polyvinyl Alcohol Hydrogel for Photocatalytic H ₂ -Generation. <i>Catalysts</i> , 2022, 12, 272.	3.5	12
2	Liquid exfoliation of five-coordinate layered titanate K ₂ Ti ₂ O ₅ single crystals in water. <i>CrystEngComm</i> , 2022, 24, 5112-5119.	2.6	1
3	Low Temperature Deposition of TiO ₂ Thin Films through Atmospheric Pressure Plasma Jet Processing. <i>Catalysts</i> , 2021, 11, 91.	3.5	12
4	Cobalt-Doped Manganese Dioxide Hierarchical Nanostructures for Enhancing Pseudocapacitive Properties. <i>ACS Omega</i> , 2021, 6, 5717-5729.	3.5	40
5	Direct Dimethyl Carbonates Synthesis over CeO ₂ and Evaluation of Catalyst Morphology Role in Catalytic Performance. <i>Catalysts</i> , 2021, 11, 223.	3.5	7
6	Advanced Two-Dimensional Heterojunction Photocatalysts of Stoichiometric and Non-Stoichiometric Bismuth Oxyhalides with Graphitic Carbon Nitride for Sustainable Energy and Environmental Applications. <i>Catalysts</i> , 2021, 11, 426.	3.5	48
7	Visible Light-Assisted Photocatalysis Using Spherical-Shaped BiVO ₄ Photocatalyst. <i>Catalysts</i> , 2021, 11, 460.	3.5	51
8	In Situ Infrared Analysis for the Process of Water Photo-oxidation on Monoclinic Bismuth Vanadate. <i>Journal of Physical Chemistry C</i> , 2021, 125, 18579-18587.	3.1	3
9	Rod-Shaped \hat{I}^2 -FeOOH Synthesis for Hydrogen Production under Light Irradiation. <i>ACS Omega</i> , 2021, 6, 30562-30568.	3.5	7
10	One-Pot Synthesis of Anatase, Rutile-Decorated Hydrogen Titanate Nanorods by Yttrium Doping for Solar H ₂ Production. <i>ACS Omega</i> , 2020, 5, 23081-23089.	3.5	7
11	Enhanced Solar Photothermal Catalysis over Solution Plasma Activated TiO ₂ . <i>Advanced Science</i> , 2020, 7, 2000204.	11.2	89
12	Single Crystal ZrO ₂ Nanosheets Formed by Thermal Transformation for Solid Oxide Fuel Cells and Oxygen Sensors. <i>ACS Applied Nano Materials</i> , 2019, 2, 6866-6873.	5.0	10
13	Positive shift in the potential of photo-electrochemical CO ₂ reduction to CO on Ag-loaded boron-doped diamond electrode by an electrochemical pre-treatment. <i>Journal of Applied Electrochemistry</i> , 2018, 48, 61-73.	2.9	15
14	WO ₃ /W:BiVO ₄ /BiVO ₄ graded photoabsorber electrode for enhanced photoelectrocatalytic solar light driven water oxidation. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 4648-4655.	2.8	38
15	Enhanced UV-Vis photocatalytic performance of the CuInS ₂ /TiO ₂ /SnO ₂ hetero-structure for air decontamination. <i>Journal of Catalysis</i> , 2017, 350, 174-181.	6.2	35
16	Citrate-Capped Hybrid Au-TiO ₂ Nanomaterial for Facile and Enhanced Electrochemical Hydrazine Oxidation. <i>ACS Omega</i> , 2017, 2, 1215-1221.	3.5	29
17	Systematic studies of TiO ₂ -based photocatalysts anti-algal effects on <i>Chlorella vulgaris</i> . <i>Journal of Applied Electrochemistry</i> , 2017, 47, 197-203.	2.9	7
18	Fabrication of Efficient Visible-light-responsive TiO ₂ -WO ₃ Hollow Particle Photocatalyst by Electrospray Method. <i>Chemistry Letters</i> , 2017, 46, 122-124.	1.3	9

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19	Hierarchically nanostructured boron-doped diamond electrode surface. <i>Diamond and Related Materials</i> , 2017, 72, 13-19.	3.9	22
20	Selective Inactivation of Bacteriophage in the Presence of Bacteria by Use of Ground Rh-Doped SrTiO ₃ Photocatalyst and Visible Light. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 31393-31400.	8.0	35
21	Significance of Hydroxyl Radical in Photoinduced Oxygen Evolution in Water on Monoclinic Bismuth Vanadate. <i>Journal of Physical Chemistry C</i> , 2017, 121, 25624-25631.	3.1	29
22	±-Fe ₂ O ₃ /TiO ₂ 3D hierarchical nanostructures for enhanced photoelectrochemical water splitting. <i>Nanoscale</i> , 2017, 9, 134-142.	5.6	97
23	Ionic-Liquid-Assisted Selective and Controlled Electrochemical CO ₂ Reduction at Cu-Modified Boron-Doped Diamond Electrode. <i>ChemElectroChem</i> , 2016, 3, 1044-1047.	3.4	31
24	Boron-doped diamond semiconductor electrodes: Efficient photoelectrochemical CO ₂ reduction through surface modification. <i>Scientific Reports</i> , 2016, 6, 38010.	3.3	43
25	Photocatalytic Degradation of Gaseous Acetaldehyde over Rh-doped SrTiO ₃ under Visible Light Irradiation. <i>Chemistry Letters</i> , 2016, 45, 42-44.	1.3	18
26	Sporicidal performance induced by photocatalytic production of organic peroxide under visible light irradiation. <i>Scientific Reports</i> , 2016, 6, 33715.	3.3	13
27	Charge Separation in TiO ₂ /BDD Heterojunction Thin Film for Enhanced Photoelectrochemical Performance. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 1583-1588.	8.0	55
28	Exploring Graphene Quantum Dots/TiO ₂ interface in photoelectrochemical reactions: Solar to fuel conversion. <i>Electrochimica Acta</i> , 2016, 187, 249-255.	5.2	79
29	Single-step electrospun TiO ₂ -Au hybrid electrodes for high selectivity photoelectrocatalytic glutathione bioanalysis. <i>Journal of Materials Chemistry B</i> , 2016, 4, 220-228.	5.8	18
30	Rapid growth of diamond and its morphology by in-liquid plasma CVD. <i>Diamond and Related Materials</i> , 2016, 63, 12-16.	3.9	6
31	A mechanically bendable superhydrophobic steel surface with self-cleaning and corrosion-resistant properties. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14263-14271.	10.3	219
32	Modulating the interaction between gold and TiO ₂ nanowires for enhanced solar driven photoelectrocatalytic hydrogen generation. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 19371-19378.	2.8	16
33	Photoelectrochemical biosensors: New insights into promising photoelectrodes and signal amplification strategies. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2015, 24, 43-63.	11.6	226
34	Self-cleaning and superhydrophobic CuO coating by jet-nebulizer spray pyrolysis technique. <i>CrystEngComm</i> , 2015, 17, 2624-2628.	2.6	66
35	In Situ Photoconductivity Kinetic Study of Nano-TiO ₂ during the Photocatalytic Oxidation of Formic Acid: Effects of New Recombination and Current Doubling. <i>Journal of Physical Chemistry C</i> , 2015, 119, 21711-21722.	3.1	19
36	Enhanced Photoelectrocatalytic Water Splitting at Hierarchical Gd ³⁺ :TiO ₂ Nanostructures through Amplifying Light Reception and Surface States Passivation. <i>Journal of the Electrochemical Society</i> , 2015, 162, H108-H114.	2.9	33

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37	Synergistic oxidation of NADH on bimetallic CoPt nanoparticles decorated carbon nitride nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2015, 208, 204-211.	7.8	14
38	Pt-free solar driven photoelectrochemical hydrogen fuel generation using 1T MoS ₂ co-catalyst assembled CdS QDs/TiO ₂ photoelectrode. <i>Chemical Communications</i> , 2015, 51, 522-525.	4.1	60
39	Facile synthesis of nanostructured monoclinic bismuth vanadate by a co-precipitation method: Structural, optical and photocatalytic properties. <i>Materials Science in Semiconductor Processing</i> , 2015, 30, 343-351.	4.0	58
40	Development of sol-gel processed semi-transparent and self-cleaning superhydrophobic coatings. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5548-5553.	10.3	157
41	Thermodynamic and kinetic analysis of heterogeneous photocatalysis for semiconductor systems. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 8751.	2.8	225
42	Simultaneous glucose sensing and biohydrogen evolution from direct photoelectrocatalytic glucose oxidation on robust Cu ₂ O/TiO ₂ electrodes. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 21237-21242.	2.8	54
43	Enhanced photocatalytic performance at a Au/Ni/TiO ₂ hollow nanowire array by a combination of light scattering and reduced recombination. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 17748-17755.	2.8	26
44	Three-dimensional Gd-doped TiO ₂ fibrous photoelectrodes for efficient visible light-driven photocatalytic performance. <i>RSC Advances</i> , 2014, 4, 11750-11757.	3.6	31
45	Synergistic Metal-Metal Oxide Nanoparticles Supported Electrocatalytic Graphene for Improved Photoelectrochemical Glucose Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 4864-4871.	8.0	100
46	High-yield Electrochemical Production of Formaldehyde from CO ₂ and Seawater. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 871-874.	13.8	333
47	Superhydrophobic Surfaces Developed by Mimicking Hierarchical Surface Morphology of Lotus Leaf. <i>Molecules</i> , 2014, 19, 4256-4283.	3.8	300
48	Moth-eye-structured Antireflective Poly(methyl methacrylate) Film with Visible-light-responsive Self-cleaning Ability. <i>Chemistry Letters</i> , 2014, 43, 1511-1513.	1.3	5
49	Facile synthesis of transparent superhydrophobic titania coating by using soot as a nanoimprint template. <i>RSC Advances</i> , 2013, 3, 22825.	3.6	40
50	Cosensitization Properties of Glutathione-Protected Au ₂₅ Cluster on Ruthenium Dye-Sensitized TiO ₂ Photoelectrode. <i>International Journal of Photoenergy</i> , 2013, 1-7.	2.5	16
51	Preparation of low molecular weight chitosan using solution plasma system. <i>Carbohydrate Polymers</i> , 2012, 87, 2745-2749.	10.2	66
52	Fabrication of Vertically Aligned Diamond Whiskers from Highly Boron-Doped Diamond by Oxygen Plasma Etching. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 177-182.	8.0	47
53	Electrochemical Detection of Catechol Based on As-Grown and Nanoglass Array Boron-Doped Diamond Electrodes. <i>Electroanalysis</i> , 2010, 22, 199-203.	2.9	65
54	Enhanced electrogenerated chemiluminescence of a ruthenium tris(2,2'-bipyridyl)/tripropylamine system on a boron-doped diamond nanoglass array. <i>Chemical Communications</i> , 2010, 46, 5793.	4.1	30

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55	Boron-doped diamond nanograin array for electrochemical sensors. <i>Chemical Communications</i> , 2009, , 3624.	4.1	94
56	Electrochemical Production of High-Concentration Ozone-Water Using Freestanding Perforated Diamond Electrodes. <i>Journal of the Electrochemical Society</i> , 2007, 154, E71.	2.9	78
57	Application of Freestanding Perforated Diamond Electrodes for Efficient Ozone-Water Production. <i>Electrochemical and Solid-State Letters</i> , 2006, 9, D17.	2.2	44
58	Electrochemical Reduction of Ozone Dissolved in Perchloric Acid Solutions at Boron-doped Diamond Electrodes. <i>Chemistry Letters</i> , 2006, 35, 1018-1019.	1.3	12
59	Electrochemical reduction of carbon dioxide at ruthenium dioxide deposited on boron-doped diamond. <i>Journal of Applied Electrochemistry</i> , 2003, 33, 1205-1210.	2.9	96
60	Direct Electrochemical Oxidation of Disulfides at Anodically Pretreated Boron-Doped Diamond Electrodes. <i>Analytical Chemistry</i> , 2003, 75, 1564-1572.	6.5	113
61	Electrochemical Behavior of Cobalt Oxide Films Deposited at Conductive Diamond Electrodes. <i>Journal of the Electrochemical Society</i> , 2003, 150, E337.	2.9	70
62	Amperometric Detection of Oxidized and Reduced Glutathione at Anodically Pretreated Diamond Electrodes. <i>Chemistry Letters</i> , 2003, 32, 136-137.	1.3	12