

Shigeru Ikeda

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.

144
papers

6,362
citations

46
h-index

76
g-index

152
ext. papers

6,813
ext. citations

6.4
avg, IF

5.56
L-index

#	Paper	IF	Citations
144	Copper-based kesterite thin films for photoelectrochemical water splitting. <i>High Temperature Materials and Processes</i> , 2021 , 40, 446-460	0.9	0
143	Effects of incorporation of Ag into a kesterite CuZnSnS thin film on its photoelectrochemical properties for water reduction.. <i>Physical Chemistry Chemical Physics</i> , 2021 , 24, 468-476	3.6	2
142	Effect of Radio-Frequency Power on the Composition of BiVO ₄ Thin-Film Photoanodes Sputtered from a Single Target. <i>Energies</i> , 2021 , 14, 2122	3.1	0
141	Structural and Catalytic Features of Metal Nanoparticles Encapsulated in a Hollow Carbon Sphere. <i>Nanostructure Science and Technology</i> , 2021 , 367-378	0.9	
140	Mechanism of Incorporation of Zirconium into BiVO ₄ Visible-Light Photocatalyst. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 3320-3326	3.8	8
139	Enhancement of the photoelectrochemical properties of a CuGaSe ₂ -based photocathode for water reduction induced by loading of a Cu-deficient layer at the p-n heterointerface. <i>Applied Physics Letters</i> , 2021 , 119, 083902	3.4	5
138	3.17% efficient Cu ₂ ZnSnS ₄ BiVO ₄ integrated tandem cell for standalone overall solar water splitting. <i>Energy and Environmental Science</i> , 2021 , 14, 1480-1489	35.4	29
137	Three-Dimensional GeSe Microstructured Air Brick Photocathode for Advanced Solar Water Splitting. <i>Solar Rrl</i> , 2020 , 4, 2070055	7.1	1
136	Tailored Photoluminescence Properties of Ag(In,Ga)Se ₂ Quantum Dots for Near-Infrared In Vivo Imaging. <i>ACS Applied Nano Materials</i> , 2020 , 3, 3275-3287	5.6	18
135	Three-Dimensional GeSe Microstructured Air Brick Photocathode for Advanced Solar Water Splitting. <i>Solar Rrl</i> , 2020 , 4, 1900559	7.1	2
134	Preparation of a CuGaSe single crystal and its photocathodic properties.. <i>RSC Advances</i> , 2020 , 10, 40310-40315	4.7	14
133	Photocarrier Recombination Dynamics in BiVO ₄ for Visible Light-Driven Water Oxidation. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 3962-3972	3.8	9
132	Synthesis of nano-sized tungsten oxide particles encapsulated in a hollow silica sphere and their photocatalytic properties for decomposition of acetic acid using Pt as a co-catalyst.. <i>RSC Advances</i> , 2020 , 10, 15360-15365	3.7	4
131	Photocathode Characteristics of a Spray-Deposited Cu ₂ ZnGeS ₄ Thin Film for CO ₂ Reduction in a CO ₂ -Saturated Aqueous Solution. <i>ACS Applied Energy Materials</i> , 2019 , 2, 6911-6918	6.1	19
130	Promising GeSe Nanosheet-Based Thin-Film Photocathode for Efficient and Stable Overall Solar Water Splitting. <i>ACS Catalysis</i> , 2019 , 9, 3090-3097	13.1	32
129	Growth of CuSbS ₂ Single Crystal as an Environmentally Friendly Thermoelectric Material. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019 , 216, 1800861	1.6	5
128	Environmentally friendly CuZnSnS-based photocathode modified with a ZnS protection layer for efficient solar water splitting. <i>Journal of Colloid and Interface Science</i> , 2019 , 536, 9-16	9.3	22

127	Co-Electrodeposited Cu ₂ ZnSnS ₄ Thin Film Solar Cell and Cu ₂ ZnSnS ₄ Solar Cell BiVO ₄ Tandem Device for Unbiased Solar Water Splitting. <i>Solar Rrl</i> , 2018 , 2, 1700205	7.1	13
126	Structural and Solar Cell Properties of a Ag-Containing CuZnSnS Thin Film Derived from Spray Pyrolysis. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 5455-5463	9.5	44
125	Effects of Zirconium Doping Into a Monoclinic Scheelite BiVO Crystal on Its Structural, Photocatalytic, and Photoelectrochemical Properties. <i>Frontiers in Chemistry</i> , 2018 , 6, 266	5	20
124	Structural and electric properties of CuSbS ₂ compound semiconductor bulk crystals. <i>Japanese Journal of Applied Physics</i> , 2018 , 57, 08RC09	1.4	1
123	Over 1% Efficient Unbiased Stable Solar Water Splitting Based on a Sprayed Cu ₂ ZnSnS ₄ Photocathode Protected by a HfO ₂ Photocorrosion-Resistant Film. <i>ACS Energy Letters</i> , 2018 , 3, 1875-1881	20.1	54
122	Photoelectrochemical Reduction of CO ₂ to CO Using a CuGaS ₂ Thin-film Photocathode Prepared by a Spray Pyrolysis Method. <i>Chemistry Letters</i> , 2018 , 47, 1424-1427	1.7	10
121	Light-driven CO ₂ Reduction to Formic Acid with a Hybrid System of Biocatalyst and Semiconductor Based Photocatalyst. <i>Chemistry Letters</i> , 2018 , 47, 1505-1508	1.7	4
120	Photoelectrochemical water reduction over wide gap (Ag,Cu)(In,Ga)S thin film photocathodes. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 12502-12508	3.6	16
119	Effects of TiCl treatment on the structural and electrochemical properties of a porous TiO layer in CH ₃ NH ₃ PbI ₃ perovskite solar cells. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 26898-26905	3.6	16
118	Investigation of Cu ₂ SnSe ₃ preparation by simultaneous electrodeposition as precursor of Cu ₂ ZnSnSe ₄ thin film solar cell 2017 ,		2
117	Investigating relation of photovoltaic factors with properties of perovskite films based on various solvents. <i>Nano Energy</i> , 2016 , 21, 51-61	17.1	54
116	Effects of TiO ₂ Properties on Performance of CH ₃ NH ₃ PbI ₃ Perovskite Photovoltaic Cells. <i>MRS Advances</i> , 2016 , 1, 3185-3190	0.7	1
115	Cu ₂ ZnSnS ₄ -based thin film solar cells with more than 8% conversion efficiency obtained by using a spray pyrolysis technique 2016 ,		5
114	Effect of Indium Doping on Surface Optoelectrical Properties of Cu ₂ ZnSnS ₄ Photoabsorber and Interfacial/Photovoltaic Performance of Cadmium Free In ₂ S ₃ /Cu ₂ ZnSnS ₄ Heterojunction Thin Film Solar Cell. <i>Chemistry of Materials</i> , 2016 , 28, 3283-3291	9.6	35
113	Impact of Precursor Compositions on the Structural and Photovoltaic Properties of Spray-Deposited Cu ₂ ZnSnS ₄ Thin Films. <i>ChemSusChem</i> , 2016 , 9, 2414-20	8.3	28
112	Investigation of the Electric Structures of Heterointerfaces in Pt- and In ₂ S ₃ -Modified CuInS ₂ Photocathodes Used for Sunlight-Induced Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 16086-92	9.5	48
111	Photosplitting of Water from Wide-Gap Cu(In,Ga)S ₂ Thin Films Modified with a CdS Layer and Pt Nanoparticles for a High-Onset-Potential Photocathode. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 8576-8583	3.8	68
110	Cu(In,Ga)(S,Se) thin film solar cell with 10.7% conversion efficiency obtained by selenization of the Na-doped spray-pyrolyzed sulfide precursor film. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 6472-9	9.5	44

109	Pt/In ₂ S ₃ /CdS/Cu ₂ ZnSnS ₄ Thin Film as an Efficient and Stable Photocathode for Water Reduction under Sunlight Radiation. <i>Journal of the American Chemical Society</i> , 2015 , 137, 13691-7	16.4	221
108	Effects of Porosity and Amount of Surface Hydroxyl Groups of a Porous TiO ₂ Layer on the Performance of a CH ₃ NH ₃ PbI ₃ Perovskite Photovoltaic Cell. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 22304-22309	3.8	17
107	Cu ₂ ZnSnS ₄ thin film solar cells with 5.8% conversion efficiency obtained by a facile spray pyrolysis technique. <i>RSC Advances</i> , 2015 , 5, 77565-77571	3.7	46
106	Fabrication of Cu(In,Ga)(S,Se) ₂ thin film solar cells via spray pyrolysis of thiourea and 1-methylthiourea-based aqueous precursor solution. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 0912034	1.4	9
105	Non-Vacuum Processes for Fabrication of CIGS and CZTS Solar Cells. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2015 , 66, 126-130	0.1	
104	Impact of alloying duration of an electrodeposited Cu/Sn/Zn metallic stack on properties of Cu ₂ ZnSnS ₄ absorbers for thin-film solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2015 , 23, 1884-1895	6.8	30
103	Thin film solar cell based on CuSbS ₂ absorber fabricated from an electrochemically deposited metal stack. <i>Thin Solid Films</i> , 2014 , 550, 700-704	2.2	137
102	Pure Sulfide Cu ₂ ZnSnS ₄ Thin Film Solar Cells Fabricated by Preheating an Electrodeposited Metallic Stack. <i>Advanced Energy Materials</i> , 2014 , 4, 1301381	21.8	135
101	Mechanistic aspects of preheating effects of electrodeposited metallic precursors on structural and photovoltaic properties of Cu ₂ ZnSnS ₄ thin films. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 120, 218-225	6.4	60
100	Fabrication of an efficient electrodeposited Cu ₂ ZnSnS ₄ -based solar cells with more than 6% conversion efficiency using a sprayed Ga-doped ZnO window layer. <i>RSC Advances</i> , 2014 , 4, 24351-24355	3.7	9
99	Selective production of CuSbS ₂ , Cu ₃ SbS ₃ , and Cu ₃ SbS ₄ nanoparticles using a hot injection protocol. <i>RSC Advances</i> , 2014 , 4, 40969-40972	3.7	42
98	Platinum and indium sulfide-modified CuInS ₂ as efficient photocathodes for photoelectrochemical water splitting. <i>Chemical Communications</i> , 2014 , 50, 8941-8943	5.8	88
97	Hydrolysis of crystalline cellulose to glucose in an autoclave containing both gaseous and liquid water. <i>RSC Advances</i> , 2014 , 4, 26838	3.7	7
96	Efficiency evaluation in solar cell by chemically processed hierarchically stacked debundled pristine carbon nanotubes. <i>Electrochimica Acta</i> , 2014 , 130, 406-411	6.7	1
95	Enhancement of Solar Hydrogen Evolution from Water by Surface Modification with CdS and TiO ₂ on Porous CuInS ₂ Photocathodes Prepared by an Electrodeposition-Sulfurization Method. <i>Angewandte Chemie</i> , 2014 , 126, 12002-12006	3.6	12
94	Enhancement of solar hydrogen evolution from water by surface modification with CdS and TiO ₂ on porous CuInS ₂ photocathodes prepared by an electrodeposition-sulfurization method. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 11808-12	16.4	151
93	Photoelectrochemical Characterizations of CuInS ₂ and Cu(In,Ga)S ₂ Thin Films Fabricated by a Spray Pyrolysis Method. <i>Advanced Materials Research</i> , 2014 , 894, 427-431	0.5	2
92	Pore formation in a p-type silicon wafer using a platinum needle electrode with application of square-wave potential pulses in HF solution. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 1262-8	9.5	5

91	Single-step electrodeposition of a microcrystalline Cu ₂ ZnSnSe ₄ thin film with a kesterite structure. <i>Electrochimica Acta</i> , 2013 , 88, 436-442	6.7	52
90	Fabrication of pores in a silicon carbide wafer by electrochemical etching with a glassy-carbon needle electrode. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 2580-4	9.5	16
89	Synthesis of Nickel Nanoparticles Encapsulated in a Hollow Silica Shell. <i>Applied Mechanics and Materials</i> , 2013 , 372, 132-135	0.3	2
88	Fabrication of CuInS ₂ and Cu(In,Ga)S ₂ thin films by a facile spray pyrolysis and their photovoltaic and photoelectrochemical properties. <i>Catalysis Science and Technology</i> , 2013 , 3, 1849	5.5	50
87	The Effect of Annealing Temperature and KCN Etching on the Photovoltaic Properties of Cu(In,Ga)(S,Se) ₂ Solar Cells Using Nanoparticles. <i>International Journal of Photoenergy</i> , 2013 , 2013, 1-7	2.1	8
86	Fabrication of Cu ₂ ZnSnSe ₄ thin films from an electrodeposited Cu-Zn-Sn-Se/Cu-Sn-Se bilayer. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2013 , 10, 1062-1066		12
85	CuSbS ₂ -based thin film solar cells prepared from electrodeposited metallic stacks composed of Cu and Sb layers 2013 ,		2
84	An inorganic/organic hybrid solar cell consisting of Cu ₂ O and a fullerene derivative. <i>Thin Solid Films</i> , 2012 , 526, 191-194	2.2	3
83	A perspective on fabricating carbon-based nanomaterials by photocatalysis and their applications. <i>Energy and Environmental Science</i> , 2012 , 5, 9307	35.4	112
82	Isotope tracing study on oxidation of water on photoirradiated TiO ₂ particles. <i>Applied Catalysis B: Environmental</i> , 2012 , 126, 86-89	21.8	4
81	Homogeneous electrochemical deposition of in on a Cu-covered Mo substrate for fabrication of efficient solar cells with a CuInS ₂ photoabsorber. <i>Electrochimica Acta</i> , 2012 , 79, 189-196	6.7	31
80	Structural regulation of electrochemically deposited copper layers for fabrication of thin film solar cells with a CuInS ₂ photoabsorber. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 2424-2427	3.9	15
79	Plasmon-Enhanced Photocatalytic Activity of Cadmium Sulfide Nanoparticle Immobilized on Silica-Coated Gold Particles. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 2057-2062	6.4	163
78	Formation of through-holes in Si wafers by using anodically polarized needle electrodes in HF solution. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 2417-24	9.5	13
77	Fabrication of CuInS ₂ films from electrodeposited Cu/In bilayers: effects of preheat treatment on their structural, photoelectrochemical and solar cell properties. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 6662-9	3.6	37
76	Two routes for mineralizing benzene by TiO ₂ -photocatalyzed reaction. <i>Applied Catalysis B: Environmental</i> , 2011 , 107, 119-127	21.8	35
75	Potentiostatic electrodeposition of cuprous oxide thin films for photovoltaic applications. <i>Electrochimica Acta</i> , 2011 , 56, 4882-4888	6.7	93
74	Electrochemical method for slicing Si blocks into wafers using platinum wire electrodes. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 716-720	6.4	13

73	A superstrate solar cell based on $\text{In}_2(\text{Se,S})_3$ and $\text{CuIn}(\text{Se,S})_2$ thin films fabricated by electrodeposition combined with annealing. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 1446-1451	6.4	14
72	Emission spectroscopy of divalent-cation-doped GaN photocatalysts. <i>Journal of Applied Physics</i> , 2011 , 110, 113526	2.5	1
71	Development of New Methods for Fine-Wiring in Si Using a Wet Catalytic Reaction. <i>Key Engineering Materials</i> , 2011 , 470, 129-134	0.4	
70	Photoreduction of water by using modified CuInS_2 electrodes. <i>ChemSusChem</i> , 2011 , 4, 262-8	8.3	63
69	Electrochemical Synthesis of $\text{CuIn}(\text{Se,S})_2$ Layer for Thin-Film Solar Cell with a Superstrate Configuration. <i>Journal of the Electrochemical Society</i> , 2010 , 157, B99	3.9	20
68	Determination of oxygen sources for oxidation of benzene on TiO_2 photocatalysts in aqueous solutions containing molecular oxygen. <i>Journal of the American Chemical Society</i> , 2010 , 132, 8453-8	16.4	128
67	Catalytic activity and regeneration property of a Pd nanoparticle encapsulated in a hollow porous carbon sphere for aerobic alcohol oxidation. <i>Langmuir</i> , 2010 , 26, 17720-5	4	104
66	Multicomponent sulfides as narrow gap hydrogen evolution photocatalysts. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 13943-9	3.6	57
65	Acceleration of groove formation in silicon using catalytic wire electrodes for development of a slicing technique. <i>Journal of Materials Processing Technology</i> , 2010 , 210, 330-334	5.3	12
64	Lowering of photocatalytic activity of TiO_2 particles during oxidative decomposition of benzene in aerated liquid. <i>Applied Catalysis B: Environmental</i> , 2010 , 94, 186-191	21.8	18
63	Morphological Control of Carbon Carrier in Pt/Carbon Nanocomposites Derived from Photocatalytic Reactions on Titanium(IV) Oxide Powders. <i>Topics in Catalysis</i> , 2009 , 52, 627-633	2.3	1
62	Efficient photodecomposition of gaseous organics catalyzed by titanium(IV) oxide encapsulated in a hollow silica shell with high porosity. <i>Applied Catalysis A: General</i> , 2009 , 363, 216-220	5.1	20
61	Structural effects of titanium(IV) oxide encapsulated in a hollow silica shell on photocatalytic activity for gas-phase decomposition of organics. <i>Applied Catalysis A: General</i> , 2009 , 369, 113-118	5.1	11
60	Formation of 100 nm Deep Vertical Pores in Si Wafers by Wet Etching and Cu Electrodeposition. <i>Journal of the Electrochemical Society</i> , 2009 , 156, D543	3.9	15
59	Electrochemical Grooving of Si Wafers Using Catalytic Wire Electrodes in HF Solution. <i>Journal of the Electrochemical Society</i> , 2009 , 156, H134	3.9	15
58	Origin of the High Activity of Porous Carbon-Coated Platinum Nanoparticles for Aerobic Oxidation of Alcohols. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 12799-12805	3.8	19
57	Pore formation in silicon by wet etching using micrometre-sized metal particles as catalysts. <i>Journal of Materials Chemistry</i> , 2008 , 18, 1015		146
56	An efficient and reusable carbon-supported platinum catalyst for aerobic oxidation of alcohols in water. <i>Chemical Communications</i> , 2008 , 3181-3	5.8	66

55	Photocatalytic Route for Synthesis of Hollow Porous Carbon/Pt Nanocomposites with Controllable Density and Porosity. <i>Chemistry of Materials</i> , 2008 , 20, 1154-1160	9.6	29
54	High sintering resistance of platinum nanoparticles embedded in a microporous hollow carbon shell fabricated through a photocatalytic reaction. <i>Langmuir</i> , 2008 , 24, 6307-12	4	31
53	Efficient Reductive Alkylation of Aniline with Acetone over Pt Nanoparticles Encapsulated in Hollow Porous Carbon. <i>Chemistry Letters</i> , 2008 , 37, 948-949	1.7	5
52	Rhodium Nanoparticle Encapsulated in a Porous Carbon Shell as an Active Heterogeneous Catalyst for Aromatic Hydrogenation. <i>Advanced Functional Materials</i> , 2008 , 18, 2190-2196	15.6	105
51	Size-selective photocatalytic reactions by titanium(IV) oxide coated with a hollow silica shell in aqueous solutions. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 6319-26	3.6	34
50	Origin of Visible Light Absorption in GaN-Rich (Ga _{1-x} Zn _x)(N _{1-x} O _x) Photocatalysts. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 18853-18855	3.8	79
49	Fabrication of Hollow Carbon Nanospheres Encapsulating Platinum Nanoparticles Using a Photocatalytic Reaction. <i>Advanced Materials</i> , 2007 , 19, 597-601	24	120
48	A simple method for preparing highly active palladium catalysts loaded on various carbon supports for liquid-phase oxidation and hydrogenation reactions. <i>Journal of Molecular Catalysis A</i> , 2007 , 268, 59-64		85
47	Evaluation of electron-hole recombination properties of titanium (IV) oxide particles with high photocatalytic activity. <i>Research on Chemical Intermediates</i> , 2007 , 33, 285-296	2.8	44
46	Selective Adsorption of Glucose-Derived Carbon Precursor on Amino-Functionalized Porous Silica for Fabrication of Hollow Carbon Spheres with Porous Walls. <i>Chemistry of Materials</i> , 2007 , 19, 4335-4340	9.6	119
45	Encapsulation of titanium(IV) oxide particles in hollow silica for size-selective photocatalytic reactions. <i>Chemical Communications</i> , 2007 , 3753-5	5.8	64
44	Ligand-free platinum nanoparticles encapsulated in a hollow porous carbon shell as a highly active heterogeneous hydrogenation catalyst. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 7063-6	16.4	309
43	Preparation of platinized strontium titanate covered with hollow silica and its activity for overall water splitting in a novel phase-boundary photocatalytic system. <i>Catalysis Today</i> , 2006 , 117, 343-349	5.3	37
42	Photocatalytic activity of hydrothermally synthesized tantalate pyrochlores for overall water splitting. <i>Applied Catalysis A: General</i> , 2006 , 300, 186-190	5.1	100
41	Porous polystyrene microspheres having dimpled surface structures prepared within micellar assemblies of amphiphilic silica particles in water. <i>Chemical Communications</i> , 2005 , 4205-7	5.8	9
40	Asymmetrically modified silica particles: a simple particulate surfactant for stabilization of oil droplets in water. <i>Journal of the American Chemical Society</i> , 2005 , 127, 6271-5	16.4	165
39	Direct Observation of Amphiphilic Silica Particles Assembled at an Oil/Water Interface. <i>Chemistry Letters</i> , 2005 , 34, 1386-1387	1.7	6
38	Transition metal Schiff-base complexes chemically anchored on Y-zeolite: their preparation and catalytic epoxidation of 1-octene in the suspension and phase boundary systems. <i>Journal of Molecular Catalysis A</i> , 2005 , 225, 181-188		36

37	Oxidation of hydrophobic alcohols using aqueous hydrogen peroxide over amphiphilic silica particles loaded with titanium(IV) oxide as a liquid-liquid phase-boundary catalyst. <i>Applied Catalysis A: General</i> , 2005 , 278, 269-274	5.1	14
36	Photocatalytic Preparation of Encapsulated Gold Nanoparticles by Jingle-bell-shaped Cadmium Sulfide-Silica Nanoparticles. <i>Topics in Catalysis</i> , 2005 , 35, 321-325	2.3	5
35	Photooxidation of organic compounds in a solution containing hydrogen peroxide and TiO ₂ particles under visible light. <i>Journal of Applied Electrochemistry</i> , 2005 , 35, 793-797	2.6	32
34	Amphiphilic NaY zeolite particles loaded with niobic acid: Materials with applications for catalysis in immiscible liquid-liquid system. <i>Reaction Kinetics and Catalysis Letters</i> , 2004 , 82, 255-261		3
33	Asymmetrically modified titanium(IV) oxide particles having both hydrophobic and hydrophilic parts of their surfaces for liquid-liquid dual-phase photocatalytic reactions. <i>Applied Catalysis A: General</i> , 2004 , 265, 69-74	5.1	26
32	Overall Water Splitting on Tungsten-Based Photocatalysts with Defect Pyrochlore Structure. <i>Catalysis Letters</i> , 2004 , 98, 229-233	2.8	92
31	Light intensity dependence of the action spectra of photocatalytic reactions with anatase titanium(IV) oxide. <i>Chemical Physics Letters</i> , 2004 , 392, 220-224	2.5	45
30	Elucidation of the local structure of active titanium(IV) sites on silica-based phase-boundary catalysts for alkene epoxidation with aqueous hydrogen peroxide. <i>Physical Chemistry Chemical Physics</i> , 2004 , 6, 2523	3.6	16
29	Phase-boundary catalysts for acid-catalyzed reactions: the role of bimodal amphiphilic structure and location of active sites. <i>Journal of the Brazilian Chemical Society</i> , 2004 , 15, 719-724	1.5	12
28	50 Effect of titanium active site location on activity of phase boundary catalyst particles for alkene epoxidation with aqueous hydrogen peroxide. <i>Studies in Surface Science and Catalysis</i> , 2003 , 251-254	1.8	5
27	Photocatalytic Organic Syntheses: Selective Cyclization of Amino Acids in Aqueous Suspensions. <i>Catalysis Surveys From Asia</i> , 2003 , 7, 165-176	2.8	55
26	Photocatalytic redox-combined synthesis of l-pipecolic acid from l-lysine by suspended titania particles: effect of noble metal loading on the selectivity and optical purity of the product. <i>Journal of Catalysis</i> , 2003 , 217, 152-152	7.3	36
25	Photochemical hydrogen evolution from aqueous triethanolamine solutions sensitized by binaphthol-modified titanium(IV) oxide under visible-light irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2003 , 160, 61-67	4.7	72
24	Development of a novel photocatalytic reaction system for oxidative decomposition of volatile organic compounds in water with enhanced aeration. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2003 , 160, 121-126	4.7	19
23	Photoinduced chemical reactions on natural single crystals and synthesized crystallites of mercury(II) sulfide in aqueous solution containing naturally occurring amino acids. <i>Inorganic Chemistry</i> , 2003 , 42, 1518-24	5.1	23
22	Quantitative analysis of defective sites in titanium(IV) oxide photocatalyst powders. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 778-783	3.6	200
21	Visible Light-induced Hydrogen Evolution from Aqueous Suspensions of Titanium(IV) Oxide Modified with Binaphthol. <i>Electrochemistry</i> , 2002 , 70, 442-445	1.2	18
20	Photocatalytic degradation of organic compounds in aqueous systems by transition metal doped polycrystalline TiO ₂ . <i>Catalysis Today</i> , 2002 , 75, 87-93	5.3	269

19	Discrimination of the active crystalline phases in anatase-rutile mixed titanium(IV) oxide photocatalysts through action spectrum analyses. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 5910-5914	3.6	120
18	Phase-Boundary Catalysis of Alkene Epoxidation with Aqueous Hydrogen Peroxide Using Amphiphilic Zeolite Particles Loaded with Titanium Oxide. <i>Journal of Catalysis</i> , 2001 , 204, 402-408	7.3	57
17	Photocatalytic activity of transition-metal-loaded titanium(IV) oxide powders suspended in aqueous solutions: Correlation with electron-hole recombination kinetics. <i>Physical Chemistry Chemical Physics</i> , 2001 , 3, 267-273	3.6	177
16	Direct Observation of Bimodal Amphiphilic Surface Structures of Zeolite Particles for a Novel Liquid-Liquid Phase Boundary Catalysis. <i>Langmuir</i> , 2001 , 17, 7976-7979	4	28
15	Mechano-catalytic overall water splitting on some oxides (II). <i>Applied Catalysis A: General</i> , 2000 , 200, 255-262	5.1	22
14	Mechano-catalytic overall water-splitting into hydrogen and oxygen on some metal oxides. <i>Applied Energy</i> , 2000 , 67, 159-179	10.7	28
13	Mechano-catalytic overall water splitting on some mixed oxides. <i>Catalysis Today</i> , 2000 , 63, 175-181	5.3	32
12	Shape- and size-selective photocatalytic reactions by layered titanate powder suspended in deaerated aqueous alcohol solutions. <i>Physical Chemistry Chemical Physics</i> , 2000 , 2, 5308-5313	3.6	12
11	Phase-boundary catalysis: a new approach in alkene epoxidation with hydrogen peroxide by zeolite loaded with alkylsilane-covered titanium oxide. <i>Chemical Communications</i> , 2000 , 2235-2236	5.8	51
10	Mechano-catalytic overall water-splitting into hydrogen and oxygen on some metal oxides 2000 , 159-179		3
9	Overall water splitting on Cu(I)-containing ternary oxides, CuMO ₂ (M=Fe, Ga, Al) with delafossite structure. <i>Studies in Surface Science and Catalysis</i> , 1999 , 301-304	1.8	9
8	Novel methods for preparation of ion-exchangeable thin films. <i>Thin Solid Films</i> , 1999 , 343-344, 156-159	2.2	19
7	Mechano-catalysis—novel method for overall water splitting. <i>Physical Chemistry Chemical Physics</i> , 1999 , 1, 4485-4491	3.6	71
6	Synthesis of NiO-loaded KTiNbO ₅ photocatalysts by a novel polymerizable complex method. <i>Journal of Alloys and Compounds</i> , 1999 , 285, 77-81	5.7	46
5	Mechano-catalytic overall water splitting. <i>Chemical Communications</i> , 1998 , 2185-2186	5.8	121
4	Preparation of K ₂ La ₂ Ti ₃ O ₁₀ by Polymerized Complex Method and Photocatalytic Decomposition of Water. <i>Chemistry of Materials</i> , 1998 , 10, 72-77	9.6	145
3	Preparation of a high active photocatalyst, K ₂ La ₂ Ti ₃ O ₁₀ , by polymerized complex method and its photocatalytic activity of water splitting. <i>Journal of Materials Research</i> , 1998 , 13, 852-855	2.5	50
2	Effect of the particle size for photocatalytic decomposition of water on Ni-loaded K ₄ Nb ₆ O ₁₇ . <i>Microporous Materials</i> , 1997 , 9, 253-258		84

- 1 Electron spin resonance study on polymerization of alkyl acrylates with n-butyl titanate(IV)triethylaluminum catalyst. *Journal of Polymer Science: Polymer Chemistry Edition*, **1979**, 17, 2363-2369

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