

Yuji Wada

List of Publications by Year in descending order

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111
papers

6,582
citations

134610

34
h-index

71088

80
g-index

116
all docs

116
docs citations

116
times ranked

7687
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrothermal synthesis of nanosized anatase and rutile TiO ₂ using amorphous phase TiO ₂ . Journal of Materials Chemistry, 2001, 11, 1694-1703.	6.7	519
2	Quasi-solid-state dye-sensitized solar cells using room temperature molten salts and a low molecular weight gelator. Chemical Communications, 2002, , 374-375.	2.2	472
3	Photocurrent-Determining Processes in Quasi-Solid-State Dye-Sensitized Solar Cells Using Ionic Gel Electrolytes. Journal of Physical Chemistry B, 2003, 107, 4374-4381.	1.2	433
4	Quasi-Solid-State Dye-Sensitized TiO ₂ Solar Cells: Effective Charge Transport in Mesoporous Space Filled with Gel Electrolytes Containing Iodide and Iodine. Journal of Physical Chemistry B, 2001, 105, 12809-12815.	1.2	358
5	Dependence of TiO ₂ Nanoparticle Preparation Methods and Annealing Temperature on the Efficiency of Dye-Sensitized Solar Cells. Journal of Physical Chemistry B, 2002, 106, 10004-10010.	1.2	333
6	Importance of binding states between photosensitizing molecules and the TiO ₂ surface for efficiency in a dye-sensitized solar cell. Journal of Electroanalytical Chemistry, 1995, 396, 27-34.	1.9	299
7	Luminescent Polymer Containing the Eu(III) Complex Having Fast Radiation Rate and High Emission Quantum Efficiency. Journal of Physical Chemistry A, 2003, 107, 1697-1702.	1.1	281
8	Stepped Light-Induced Transient Measurements of Photocurrent and Voltage in Dye-Sensitized Solar Cells: A Application for Highly Viscous Electrolyte Systems. Langmuir, 2005, 21, 10803-10807.	1.6	250
9	Dye-Sensitized TiO ₂ Solar Cells Using Imidazolium-Type Ionic Liquid Crystal Systems as Effective Electrolytes. Journal of Physical Chemistry B, 2007, 111, 4763-4769.	1.2	211
10	Ionic liquid crystal as a hole transport layer of dye-sensitized solar cells. Chemical Communications, 2005, , 740.	2.2	199
11	Enhanced Emission of Deuterated Tris(hexafluoroacetylacetonato)neodymium(III) Complex in Solution by Suppression of Radiationless Transition via Vibrational Excitation. The Journal of Physical Chemistry, 1996, 100, 10201-10205.	2.9	185
12	Surface Characteristics of ZnS Nanocrystallites Relating to Their Photocatalysis for CO ₂ Reduction1. Langmuir, 1998, 14, 5154-5159.	1.6	182
13	Photoreductive Dehalogenation of Halogenated Benzene Derivatives Using ZnS or CdS Nanocrystallites as Photocatalysts. Environmental Science & Technology, 2001, 35, 227-231.	4.6	181
14	Solid State Dye-Sensitized TiO ₂ Solar Cell with Polypyrrole as Hole Transport Layer. Chemistry Letters, 1997, 26, 471-472.	0.7	161
15	Fabrication of solid-state dye-sensitized TiO ₂ solar cells combined with polypyrrole. Solar Energy Materials and Solar Cells, 1998, 55, 113-125.	3.0	157
16	Effects of Lithium Ion Density on Electron Transport in Nanoporous TiO ₂ Electrodes. Journal of Physical Chemistry B, 2001, 105, 9150-9152.	1.2	153
17	Effects of crystal structure, size, shape and surface structural differences on photo-induced electron transport in TiO ₂ mesoporous electrodes. Journal of Materials Chemistry, 2002, 12, 723-728.	6.7	134
18	Microwave-assisted size control of CdS nanocrystallites. Journal of Materials Chemistry, 2001, 11, 1936-1940.	6.7	131

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19	Fine Control of Redâ€“Greenâ€“Blue Photoluminescence in Zeolites Incorporated with Rare-Earth Ions and a Photosensitizer. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 1925-1928.	7.2	124
20	Novel synthesis of phase-pure nano-particulate anatase and rutile TiO ₂ using TiCl ₄ aqueous solutions. <i>Journal of Materials Chemistry</i> , 2002, 12, 378-383.	6.7	122
21	In Situ Observation of Nonequilibrium Local Heating as an Origin of Special Effect of Microwave on Chemistry. <i>Journal of Physical Chemistry C</i> , 2010, 114, 8965-8970.	1.5	116
22	Observation of neodymium electroluminescence. <i>Applied Physics Letters</i> , 1999, 74, 3245-3247.	1.5	114
23	Poly(3,4-ethylenedioxythiophene) as a hole conductor in solid state dye sensitized solar cells. <i>Synthetic Metals</i> , 2002, 131, 185-187.	2.1	100
24	Electrochemical preparation of macroporous polypyrrole films with regular arrays of interconnected spherical voids. <i>Chemical Communications</i> , 2000, , 1613-1614.	2.2	83
25	Conductive and Transparent Multilayer Films for Low-Temperature-Sintered Mesoporous TiO ₂ Electrodes of Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2003, 15, 2824-2828.	3.2	83
26	Enhancement of Photoexcited Charge Transfer by {001} Facet-Dominating TiO ₂ Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2655-2659.	2.1	77
27	Enhancement of Fixed-bed Flow Reactions under Microwave Irradiation by Local Heating at the Vicinal Contact Points of Catalyst Particles. <i>Scientific Reports</i> , 2019, 9, 222.	1.6	62
28	Photosensitized luminescence of novel β^2 -diketonato Nd(III) complexes in solution. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 2291-2296.	1.3	45
29	Spectroscopic study on strongly luminescent Nd(III) exchanged zeolite: TMA ⁺ -containing FAU type zeolite as a suitable host for ship-in-bottle synthesis. <i>Journal of Materials Chemistry</i> , 2002, 12, 1748-1753.	6.7	41
30	Photocrosslinking reaction of vinyl-functional polyphenylsilsesquioxane sensitized with aromatic bisazide compounds. <i>Journal of Polymer Science Part A</i> , 2001, 39, 4196-4205.	2.5	37
31	Intrazeolite Nanostructure of Nd(III) Complex Giving Strong Near-Infrared Luminescence. <i>Journal of Physical Chemistry B</i> , 2003, 107, 11302-11306.	1.2	37
32	Smelting Magnesium Metal using a Microwave Pidgeon Method. <i>Scientific Reports</i> , 2017, 7, 46512.	1.6	37
33	Microwave Effects on Coâ€“Pi Cocatalysts Deposited on β -Fe ₂ O ₃ for Application to Photocatalytic Oxygen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 10349-10354.	4.0	36
34	Organization of supramolecular assembly of 9-mesityl-10-carboxymethylacridinium ion and fullerene clusters on TiO ₂ nanoparticles for light energy conversion. <i>Journal of Materials Chemistry</i> , 2005, 15, 372.	6.7	35
35	Catalytic reactions enhanced under microwave-induced local thermal non-equilibrium in a coreâ€“shell, carbon-filled zeolite@zeolite. <i>Journal of Catalysis</i> , 2015, 323, 1-9.	3.1	34
36	Rapid Synthesis of Thiopheneâ€“Based, Organic Dyes for Dyeâ€“Sensitized Solar Cells (DSSCs) by a Oneâ€“Pot, Fourâ€“Component Coupling Approach. <i>Chemistry - A European Journal</i> , 2015, 21, 9742-9747.	1.7	29

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55	Rigidochromic Phosphorescence of $[\text{Ir}(\text{2-phenylpyridine})_2(\text{2,2'-bipyridine})]$ in C16TMA: Layered Silicate and Its Förster Resonance Energy Transfer. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 2324-2329.	1.0	13
56	Precise Control of Photoinduced Electron Transfer in Alternate Layered Nanostructures of Titanium Oxide-Tungsten Oxide. <i>Journal of Physical Chemistry C</i> , 2014, 118, 22968-22974.	1.5	12
57	Electron transport properties in dye-sensitized solar cells with {001} facet-dominant TiO_2 nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 22129-22140.	1.3	12
58	Dyes that Contain New Hydantoin Anchoring Groups for Dye-Sensitized Solar Cells. <i>Asian Journal of Organic Chemistry</i> , 2018, 7, 458-464.	1.3	12
59	Construction of Highly Hierarchical Layered Structure Consisting of Titanate Nanosheets, Tungstate Nanosheets, $\text{Ru}(\text{bpy})_3^{2+}$, and $\text{Pt}(\text{terpy})$ for Vectorial Photoinduced Z-Scheme Electron Transfer. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 37150-37162.	4.0	12
60	Remote Control of Electron Transfer Reaction by Microwave Irradiation: Kinetic Demonstration of Reduction of Bipyridine Derivatives on Surface of Nickel Particle. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3390-3394.	2.1	12
61	Onium Salt Effects on Terphenyl-Sensitized Photoreduction of Water to Hydrogen. <i>Journal of Physical Chemistry A</i> , 1999, 103, 4874-4878.	1.1	11
62	Microwave-assisted solvent-free instantaneous Claisen rearrangement for synthesis of bis(3-allyl-4-hydroxyphenyl) sulfone. <i>Green Chemistry</i> , 2003, 5, 690.	4.6	11
63	Enhanced debromination of brominated flame retardant plastics under microwave irradiation. <i>Green Chemistry</i> , 2008, 10, 739.	4.6	11
64	Hole Accumulation at the Grain Boundary Enhances Water Oxidation at Fe_2O_3 Electrodes under a Microwave Electric Field. <i>Journal of Physical Chemistry C</i> , 2020, 124, 7749-7759.	1.5	10
65	Designing Local Microwave Heating of Metal Nanoparticles/Metal Oxide Substrate Composites. <i>Journal of Physical Chemistry C</i> , 2021, 125, 23720-23728.	1.5	10
66	Local Thermal Nonequilibrium on Solid and Liquid Interface Generated in a Microwave Magnetic Field. <i>Chemistry Letters</i> , 2012, 41, 1409-1411.	0.7	9
67	The pH-depending enhancement of electron transfer by {001} facet-dominating TiO_2 nanoparticles for photocatalytic H_2 evolution under visible irradiation. <i>Catalysis Science and Technology</i> , 2014, 4, 871.	2.1	9
68	Proton-Enhanced Dielectric Properties of Polyoxometalates in Water under Radio-Frequency Electromagnetic Waves. <i>Materials</i> , 2018, 11, 1202.	1.3	9
69	Preparation of nano-sized YAG: Eu^{3+} particles by a microwave-assisted polyol process and their luminescence properties. <i>Research on Chemical Intermediates</i> , 2006, 32, 331-339.	1.3	8
70	Preparation of luminescent nanosized $\text{NaEu}(\text{MoO}_4)_2$ incorporated in amorphous matrix originated from zeolite. <i>Journal of Materials Science</i> , 2007, 42, 5991-5998.	1.7	8
71	Luminescence of ortho-Metalated Iridium Complexes Encapsulated in Zeolite Supercages by the Ship-in-a-Bottle Method. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 3113-3120.	1.0	8
72	Microwave assisted synthesis of high-surface area WO_3 particles decorated with mosaic patterns via hydrochloric acid treatment of Bi_2WO_9 . <i>RSC Advances</i> , 2015, 5, 77839-77846.	1.7	8

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73	Enhancement of anodic current attributed to oxygen evolution on Fe_2O_3 electrode by microwave oscillating electric field. <i>Scientific Reports</i> , 2016, 6, 35554.	1.6	8
74	Microwave Application to Efficient Annealing Process of $\text{CH}_3\text{NH}_3\text{PbI}_3$ Perovskite Crystalline Films. <i>Electrochemistry</i> , 2017, 85, 236-240.	0.6	8
75	Radio frequency alternating electromagnetic field enhanced tetraruthenium polyoxometalate electrocatalytic water oxidation. <i>Chemical Communications</i> , 2019, 55, 1032-1035.	2.2	8
76	Operando Raman Spectroscopy of the Microwave-Enhanced Catalytic Dehydration of 2-Propanol by WO_3 . <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 1781-1788.	1.8	8
77	Microwave Irradiation Process for Al-Sc Alloy Production. <i>Scientific Reports</i> , 2020, 10, 2689.	1.6	8
78	Drastic Microwave Heating of Percolated Pt Metal Nanoparticles Supported on Al_2O_3 Substrate. <i>Processes</i> , 2020, 8, 72.	1.3	8
79	Determining the influence of microwave-induced thermal unevenness on vanadium oxide catalyst particles. <i>Chemical Engineering Journal</i> , 2022, 433, 133603.	6.6	8
80	Development of Bi-Luminophore Pressure-Sensitive Paint Systems. , 2007, , .		7
81	Dye-sensitized H_2 Evolution over TiO_2 and SnO_2 Nanoparticles Depending on Electron Donors. <i>Chemistry Letters</i> , 2012, 41, 423-424.	0.7	7
82	Specific electronic absorptions of alternate layered nanostructures of two metal oxides synthesized via a thiol-ene click reaction. <i>RSC Advances</i> , 2016, 6, 73830-73841.	1.7	7
83	Acceleration of Water Electrolysis by Accumulation of Microwave Energy at a Pt Disk Electrode. <i>Chemistry Letters</i> , 2017, 46, 1593-1596.	0.7	7
84	Influence of Coexisting Electron Donor Species on Charge Transfer in Dye-Sensitized Nanocrystalline TiO_2 for H_2 Evolution under Visible Light. <i>Bulletin of the Chemical Society of Japan</i> , 2012, 85, 1268-1276.	2.0	6
85	Electron Transfer from Excited $[\text{Ir}(\text{2-phenylpyridyl})_3]$ through a Coexisting Electron Relay in Zeolite. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 1470-1476.	1.0	6
86	Visible-light-induced electron transfer between alternating stacked layers of tungstate and titanate mediated by excitation of intercalated dye molecules. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 872-875.	1.3	6
87	Self-oriented TiO_2 nanosheets in films for enhancement of electron transport in nanoporous semiconductor networks. <i>Materials Chemistry Frontiers</i> , 2017, 1, 2094-2102.	3.2	6
88	Crystalline orientation control using self-assembled TiO_2 nanosheet scaffold to improve $\text{CH}_3\text{NH}_3\text{PbI}_3$ perovskite solar cells. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 08MC17.	0.8	6
89	Real-Time Facile Detection of the WO_3 Catalyst Oxidation State under Microwaves Using a Resonance Frequency. <i>ACS Omega</i> , 2020, 5, 31957-31962.	1.6	6
90	A Facile Formation of Vanadium(0) by the Reduction of Vanadium Pentoxide Pelletized with Magnesium Oxide Enabled by Microwave Irradiation. <i>ChemistrySelect</i> , 2020, 5, 2949-2953.	0.7	5

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91	Distance-depending Photoinduced Electron Transfer at Two-dimensional Interface in Alternate Stacked Structures of Tantalate Nanosheets and Tungstate Nanosheets. Chemistry Letters, 2016, 45, 1111-1113.	0.7	4
92	Hetero-epitaxial growth control of single-crystalline anatase TiO ₂ nanosheets predominantly exposing the {001} facet on oriented crystalline substrates. CrystEngComm, 2017, 19, 4734-4741.	1.3	4
93	Effect of Functional Groups in Organic Chlorides on Radical Reduction with Hydrostannane under Microwave Irradiation. Chemistry Letters, 2017, 46, 1116-1118.	0.7	4
94	Effect of Aspect Ratio on the Permittivity of Graphite Fiber in Microwave Heating. Materials, 2018, 11, 169.	1.3	4
95	Manipulation of the Magnetic Properties of Co ²⁺ and Fe ³⁺ -Doped Layered Titanates by Alkyl Ammonium Intercalation. Advanced Materials Interfaces, 2016, 3, 1600509.	1.9	3
96	Reduction of metal oxides using thermogravimetry under microwave irradiation. AIP Advances, 2021, 11, .	0.6	3
97	Methanol decomposition reaction using Pd/C as solid catalyst under highly precise microwave irradiation. , 2012, , .		2
98	Smelting of Scandium by Microwave Irradiation. Materials, 2017, 10, 1138.	1.3	2
99	Effects of {001} Facet of Anatase TiO ₂ Single-crystalline Nanosheets on Photoexcited Electron Transfer from Near-infrared Dye-sensitizer. Chemistry Letters, 2017, 46, 1624-1627.	0.7	2
100	High Efficiency Chemical Reactions Induced by Concentrated Microwave Heating Using GaN Amplifier Modules. Journal of the Japan Petroleum Institute, 2018, 61, 163-170.	0.4	2
101	Activation of chemical reactions on solid catalysts under microwave irradiation. , 2021, , 27-69.		1
102	Key Technologies for Next Generation Thin Film Silicon Solar Cells. Dye-sensitized Solar Cells for the Next Generation.. Hyomen Kagaku, 2000, 21, 288-293.	0.0	1
103	Microwave Boosting of Interfacial Tunneling Electron Transfer in a Quantum Dot-Sensitized Photoelectrode. Bulletin of the Chemical Society of Japan, 2022, 95, 288-295.	2.0	1
104	Interlayer-expanded MWW-type zeolite catalysts with carbon filler in expanded micropores for efficient microwave heating. Journal of Materials Chemistry A, 2022, 10, 14585-14593.	5.2	1
105	Study on metal refining process of Sc metal using by microwave irradiation. , 2016, , .		0
106	7. Chemical reactions on the interfaces of solids under microwaves. , 2017, , 113-126.		0
107	New Aspects Towards Application of Microwave Heating in Solid Systems. , 2018, , .		0
108	Kinetics of Photoinduced Electron Transfer in Alternately Stacked Eu ³⁺ :LaNb ₂ O ₇ and W ₂ O ₇ Nanosheets As Demonstrated by f ⁴ Radiative Transition of Doped Eu ³⁺ . Journal of Physical Chemistry C, 2019, 123, 30029-30038.	1.5	0

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109	Microwave-assisted Pulverization of Perylene Pigment and Fabrication of Pigment-Sensitized Mesoporous TiO ₂ Solar Cells. <i>Electrochemistry</i> , 2004, 72, 490-494.	0.6	0
110	Precise Structural Control of Magnetic Nanoparticles under Microwave Irradiation. <i>Journal of the Society of Powder Technology, Japan</i> , 2011, 48, 625-631.	0.0	0
111	Photocatalytic Reaction and Surface Photoreaction on Ultra-Fine Semiconductor Particles. Photocatalysis of Metal Sulfide Nanocrystallites in Organic Solvent. <i>Quantum Box Photocatalysis.. Hyomen Kagaku</i> , 1995, 16, 180-187.	0.0	0