

Hiromasa Nishikiori

List of Publications by Year in descending order

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130
papers

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citations

361296

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31
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131
all docs

131
docs citations

131
times ranked

1468
citing authors

#	ARTICLE	IF	CITATIONS
1	Photofunctional Materials Using Organic Dyes. Journal of the Japan Society of Colour Material, 2022, 95, 138-143.	0.0	0
2	Boosted Hydrogen Evolution Kinetics Over Particulate Lanthanum and Rhodium-Doped Strontium Titanate Photocatalysts Modified with Phosphonate Groups. Angewandte Chemie - International Edition, 2021, 60, 3654-3660.	7.2	22
3	Boosted Hydrogen Evolution Kinetics Over Particulate Lanthanum and Rhodium-Doped Strontium Titanate Photocatalysts Modified with Phosphonate Groups. Angewandte Chemie, 2021, 133, 3698-3704.	1.6	0
4	Photoelectrochemical Complete Decomposition of Cellulose for Electric Power Generation. ChemCatChem, 2021, 13, 1530-1537.	1.8	6
5	Enhanced photoelectrochemical performance from particulate ZnSe:Cu(In,Ga)Se ₂ photocathodes during solar hydrogen production <i>via</i> particle size control. Sustainable Energy and Fuels, 2021, 5, 412-423.	2.5	16
6	Photocatalytic oxygen evolution triggered by photon upconverted emission based on triplet-triplet annihilation. Physical Chemistry Chemical Physics, 2021, 23, 5673-5679.	1.3	6
7	Photocatalytic and Photoelectrochemical Hydrogen Evolution from Water over Cu ₂ Sn _x GeS ₃ Particles. Journal of the American Chemical Society, 2021, 143, 5698-5708.	6.6	33
8	Z-Scheme Overall Water Splitting Using Zn _x Cd _{1-x} Se Particles Coated with Metal Cyanoferrates as Hydrogen Evolution Photocatalysts. ACS Catalysis, 2021, 11, 8004-8014.	5.5	21
9	Insights into the Electrocatalytic Oxidation of Cellulose in Solution toward Applications in Direct Cellulose Fuel Cells. Journal of Physical Chemistry C, 2021, 125, 14576-14582.	1.5	3
10	Accelerated photoelectrochemical oxygen evolution over a BaTaO ₂ N photoanode modified with cobalt-phosphate-loaded TiO ₂ nanoparticles. Applied Physics Letters, 2021, 119, 123902.	1.5	6
11	A semitransparent particulate photoanode composed of SrTiO ₃ powder anchored on titania nanosheets. Sustainable Energy and Fuels, 2021, 5, 4850-4857.	2.5	0
12	Photoelectrochemical Properties of Particulate CuGaSe ₂ and CuIn _{0.7} Ga _{0.3} Se ₂ Photocathodes in Nonaqueous Electrolyte. Bulletin of the Chemical Society of Japan, 2020, 93, 942-948.	2.0	3
13	Water retentivity of allophane-titania nanocomposite films. Applied Catalysis B: Environmental, 2020, 266, 118659.	10.8	2
14	Observation of Photoinduced Proton Transfer between the Titania Surface and Dye Molecule. Journal of Physical Chemistry C, 2020, 124, 4172-4178.	1.5	5
15	Photocatalytic hydrogen evolution from water over particulate Zn _x Cd _{1-x} Se photocathodes with photovoltages exceeding 1.23 V. Sustainable Energy and Fuels, 2019, 3, 2733-2741.	2.5	2
16	Electrochemical Evaluation for Multiple Functions of Pt-loaded TiO ₂ Nanoparticles Deposited on a Photocathode. ChemElectroChem, 2019, 6, 4859-4866.	1.7	11
17	Formation of CuO on TiO ₂ Surface Using its Photocatalytic Activity. Catalysis, 2019, 9, 383.	1.6	8

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19	Performance of Photofuel Cells Effectively Using Cellulose Film. <i>Chemistry Letters</i> , 2019, 48, 437-440.	0.7	3
20	In Situ Probing of Photoinduced Hydrophilicity on Titania Surface Using Dye Molecules. <i>ACS Omega</i> , 2019, 4, 5944-5949.	1.6	6
21	Formation of silica nanolayer on titania surface by photocatalytic reaction. <i>Applied Catalysis B: Environmental</i> , 2019, 241, 299-304.	10.8	12
22	Preparation of Ultrathin Films from TiO ₂ -SnO ₂ Hybrid Sol and Their Physical Properties. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2019, 70, 614-617.	0.1	0
23	Phase transition and crystal growth of a titania layer on a titanium metal plate. <i>Research on Chemical Intermediates</i> , 2018, 44, 7539-7555.	1.3	4
24	Photon Upconverted Emission Based on Dye-Sensitized Triplet-Triplet Annihilation in Silica Sol-Gel System. <i>ACS Omega</i> , 2018, 3, 8529-8536.	1.6	5
25	Fluorescence Properties of Dye Molecules Interacting with Nanoparticle Surface in Dye-Dispersing Titania Gels. <i>Bulletin of Japan Society of Coordination Chemistry</i> , 2018, 72, 30-37.	0.1	1
26	Reaction Kinetics on Allophane-Titania Nanocomposite Electrodes for Photofuel Cells. <i>Chemistry Letters</i> , 2017, 46, 659-661.	0.7	5
27	Influence of allophane distribution on photocatalytic activity of allophane-titania composite films. <i>Applied Clay Science</i> , 2017, 146, 43-49.	2.6	6
28	Crystal growth of titania by photocatalytic reaction. <i>Applied Catalysis B: Environmental</i> , 2017, 217, 241-246.	10.8	13
29	Degradation of Acetaldehyde using Allophane. <i>Journal of Environmental Chemistry</i> , 2017, 27, 121-127.	0.1	0
30	Platy KTiNbO ₅ as a Selective Sr Ion Adsorbent: Crystal Growth, Adsorption Experiments, and DFT Calculations. <i>Journal of Physical Chemistry C</i> , 2016, 120, 11984-11992.	1.5	15
31	Zinc complex formation of organic ligands on zinc oxide and titanium dioxide. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 327, 51-57.	2.0	7
32	Exceptional Flux Growth and Chemical Transformation of Metastable Orthorhombic LiMnO ₂ Cuboids into Hierarchically-Structured Porous H _{1.6} Mn _{1.6} O ₄ Rods as Li Ion Sieves. <i>Crystal Growth and Design</i> , 2016, 16, 6178-6185.	1.4	17
33	Flux-boosted coating of idiomorphic CuInS ₂ crystal layers on Mo-coated glass substrate. <i>CrystEngComm</i> , 2016, 18, 3612-3616.	1.3	8
34	Surface Modification of Titanium Metal Plate Using Alkali Metal Chlorides. <i>Chemistry Letters</i> , 2016, 45, 729-731.	0.7	2
35	Potential levels of metal complexes of 8-hydroxyquinoline. <i>Chemical Physics Letters</i> , 2016, 662, 146-151.	1.2	5
36	Influence of Cu distribution on photocatalytic activity of Cu-doped titania prepared using metal alkoxides. <i>Research on Chemical Intermediates</i> , 2016, 42, 4813-4825.	1.3	4

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37	Crystal structure and photoelectric conversion properties of eosin Y-adsorbing ZnO films prepared by electroless deposition. <i>Applied Catalysis B: Environmental</i> , 2016, 189, 51-55.	10.8	9
38	Degradation of Trichloroethylene Using Allophane-Titania Nanocomposite Supported on Porous Filter. <i>Chemistry Letters</i> , 2015, 44, 639-641.	0.7	6
39	Photoelectrochemical properties of dye-dispersing allophane-titania composite electrodes. <i>Applied Clay Science</i> , 2015, 107, 138-144.	2.6	2
40	Chloride Flux Growth of $\text{La}_{2}\text{Ti}_{2}\text{O}_{7}$ Crystals and Subsequent Nitridation To Form LaTiO_{2}N Crystals. <i>Crystal Growth and Design</i> , 2015, 15, 124-128.	1.4	27
41	Photocatalytic degradation of chlorinated propenes using TiO_{2} . <i>Research on Chemical Intermediates</i> , 2015, 41, 7641-7654.	1.3	0
42	Formation Process of Eosin Y-Adsorbing ZnO Particles by Electroless Deposition and Their Photoelectric Conversion Properties. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 11592-11598.	4.0	3
43	Titanium Complex Formation of Organic Ligands in Titania Gels. <i>Langmuir</i> , 2015, 31, 964-969.	1.6	10
44	Photoinduced electron transfer in rhodamine B-containing amorphous titania gels. <i>Research on Chemical Intermediates</i> , 2015, 41, 3803-3816.	1.3	3
45	Interaction between dye and zinc in the dye-dispersing ZnO films prepared by a wet process. <i>Research on Chemical Intermediates</i> , 2015, 41, 6559-6574.	1.3	1
46	Quantitative characterization of acidic groups on acid-treated multi-walled carbon nanotubes using 1-aminopyrene as a fluorescent probe. <i>Carbon</i> , 2014, 66, 560-566.	5.4	10
47	Influences of Acid on Molecular Forms of Fluorescein and Photoinduced Electron Transfer in Fluorescein-Dispersing Sol-Gel Titania Films. <i>Photochemistry and Photobiology</i> , 2014, 90, 747-759.	1.3	5
48	Influence of Dye Content on the Conduction Band Edge of Titania in the Steam-treated Dye-Dispersing Titania Electrodes. <i>Photochemistry and Photobiology</i> , 2014, 90, 1004-1011.	1.3	5
49	Photoinduced reactions of chloroacetone in solid Ar: Identification of $\text{CH}_{2}\text{COClCH}_{3}$. <i>Chemical Physics Letters</i> , 2014, 614, 258-262.	1.2	0
50	Photoinduced rotamerization and dissociation of o-fluorobenzoyl chloride in solid Ar. <i>Chemical Physics Letters</i> , 2014, 613, 34-39.	1.2	2
51	Formation of ZnO thin films by photocatalytic reaction. <i>Applied Catalysis B: Environmental</i> , 2014, 160-161, 651-657.	10.8	8
52	Reaction in photofuel cells using allophane-titania nanocomposite electrodes. <i>Applied Catalysis B: Environmental</i> , 2014, 147, 246-250.	10.8	17
53	Utilization of Titania Surface Complex for Dye-Sensitized Solar Cells. <i>Bulletin of Japan Society of Coordination Chemistry</i> , 2014, 64, 28-31.	0.1	1
54	Solvent Recovery using Porous Polydimethylsiloxine Membranes by Low-Pressure Filtration from Waste Liquid Containing Organic Solvent . <i>Journal of Environmental Chemistry</i> , 2014, 24, 113-117.	0.1	1

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55	Removal of Cesium Ion from Aqueous Solution using Allophane. <i>Journal of Environmental Chemistry</i> , 2014, 24, 77-82.	0.1	0
56	Removal of Trichloroethylene using Coal Fly Ash. <i>Journal of Environmental Chemistry</i> , 2014, 24, 33-39.	0.1	0
57	Density functional theory studies on the addition and abstraction reactions of OH radicals with terephthalate dianions. <i>International Journal of Quantum Chemistry</i> , 2013, 113, 418-422.	1.0	2
58	Dimerization of xanthene dyes in sol-gel titania films. <i>Catalysis Science and Technology</i> , 2013, 3, 2786.	2.1	9
59	Reaction of spironaphthoxazine with acid. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 252, 100-106.	2.0	0
60	Electron Transfer Process in Fluorescein-Dispersing Titania Gel Films Observed by Time-Resolved Fluorescence Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 10308-10314.	1.5	15
61	Influence of dye dispersion on photoelectric conversion properties of dye-containing titania electrodes. <i>Catalysis Science and Technology</i> , 2013, 3, 1512.	2.1	9
62	Preparation of Dye-Adsorbing ZnO Thin Films by Electroless Deposition and Their Photoelectrochemical Properties. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 8841-8844.	4.0	9
63	Fabrication of NIR-Vis Upconversion $\text{Yb}^{3+}/\text{Er}^{3+}:\text{TiO}_2/\text{ZnO}$:Ln (Ln = Yb, Er). <i>J. Electrochem. Soc.</i> 160, 11, 1187-1192.	1.4	12
64	Visible Light-Photocatalytic Activity of Sulfate-Doped Titanium Dioxide Prepared by the Sol-Gel Method. <i>Catalysts</i> , 2013, 3, 363-377.	1.6	35
65	Complex Formation in 8-Hydroxyquinoline-containing Titania Gel Films. <i>Chemistry Letters</i> , 2013, 42, 556-558.	0.7	8
66	Photoelectric Conversion Properties of Compositionally Graded Dye-Titania Electrode. <i>Chemistry Letters</i> , 2013, 42, 1391-1393.	0.7	1
67	Photofuel Cells Using Allophane-Titania Nanocomposites. <i>Chemistry Letters</i> , 2012, 41, 725-727.	0.7	14
68	Deposition of ZnO Particles by Photocatalytic Reaction. <i>Chemistry Letters</i> , 2012, 41, 993-995.	0.7	7
69	Photocatalytic activity of titania layer prepared by oxidizing titanium compounds on titanium plate surface. <i>Applied Catalysis B: Environmental</i> , 2012, 127, 227-233.	10.8	11
70	Influence of adding carbon nanotubes on photoelectric conversion properties of dye-doped titania gel. <i>Research on Chemical Intermediates</i> , 2012, 38, 1857-1869.	1.3	1
71	Matrix isolation studies of 185nm light-induced cage reactions of o-chlorobenzaldehyde. <i>Journal of Molecular Structure</i> , 2012, 1025, 48-52.	1.8	0
72	Photoelectric Conversion Properties of Dye-Sensitized Solar Cells Using Dye-Dispersing Titania. <i>Journal of Physical Chemistry C</i> , 2012, 116, 4848-4854.	1.5	25

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73	Photoinduced electron transport in dye-containing titania gel films. <i>RSC Advances</i> , 2012, 2, 4258.	1.7	14
74	Chelation ability of spironaphthoxazine with metal ions in silica gel. <i>Photochemical and Photobiological Sciences</i> , 2012, 11, 1164.	1.6	8
75	Microstructures and luminescent properties of Ce-doped transparent mica glass-ceramics. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2012, 177, 504-509.	1.7	13
76	Photocatalytic reaction on photofuel cell titania electrode. <i>Research on Chemical Intermediates</i> , 2012, 38, 241-250.	1.3	4
77	Preparation of Cu-doped TiO ₂ via refluxing of alkoxide solution and its photocatalytic properties. <i>Research on Chemical Intermediates</i> , 2012, 38, 595-613.	1.3	34
78	Low-Temperature Flux Growth and Upconversion Fluorescence of the Idiomorphic Hexagonal-System NaYF ₄ and NaYF ₄ :Ln (Ln = Yb, Er, Tm) Crystals. <i>Crystal Growth and Design</i> , 2011, 11, 4825-4830.	1.4	23
79	Influence of Steam Treatment on Dye-Titania Complex Formation and Photoelectric Conversion Property of Dye-Doped Titania Gel. <i>Journal of Physical Chemistry C</i> , 2011, 115, 2880-2887.	1.5	35
80	Novel fabrication of NIR-vis upconversion NaYF ₄ :Ln (Ln = Yb, Er, Tm) crystal layers by a flux coating method. <i>Journal of Materials Chemistry</i> , 2011, 21, 13847.	6.7	26
81	Control of photoinduced metal chelation of spirooxazine. <i>Bulletin of Japan Society of Coordination Chemistry</i> , 2011, 57, 77-80.	0.1	1
82	Photocurrent Generated from Nanoelectrode Consisting of Dye, Titania Gel, and Carbon Nanotube. <i>Chemistry Letters</i> , 2011, 40, 640-641.	0.7	1
83	Photochromic behavior of spironaphthoxazine in metal ion-containing solutions. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 222, 236-240.	2.0	9
84	Energetics of the rotational isomers of thiophenecarboxaldehydes in the ground state. <i>Chemical Physics Letters</i> , 2011, 514, 247-250.	1.2	4
85	Nitrogen doping into titanium dioxide by the sol-gel method using nitric acid. <i>Research on Chemical Intermediates</i> , 2011, 37, 869-881.	1.3	15
86	Photofuel cells using glucose-doped titania. <i>Applied Catalysis B: Environmental</i> , 2011, 106, 250-250.	10.8	3
87	Degradation of trichloroethylene using highly adsorptive allophane-TiO ₂ nanocomposite. <i>Applied Catalysis B: Environmental</i> , 2011, 102, 470-474.	10.8	38
88	Matrix-isolation infrared spectroscopy of 2,3-, 2,4-, 2,5- and 3,4-difluorobenzaldehydes. <i>Journal of Molecular Structure</i> , 2011, 1000, 35-38.	1.8	6
89	Fluorescence properties of aromatic amine adsorbed on metallic and semiconducting single-walled carbon nanotubes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 218, 226-230.	2.0	6
90	Enhanced Photocurrent in Nanocomposite of Dye-doped Titania Gel and Carbon Nanotubes. <i>Chemistry Letters</i> , 2010, 39, 530-530.	0.7	2

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91	Photocatalytic degradation of dichloroacetyl chloride adsorbed on TiO ₂ . Research on Chemical Intermediates, 2010, 36, 947-957.	1.3	10
92	Molecular forms and fluorescence processes of 9-aminoacridine in thin sol-gel films. Journal of Photochemistry and Photobiology A: Chemistry, 2010, 212, 62-67.	2.0	16
93	Preparation and luminescent properties of Eu-doped transparent mica glass-ceramics. Ceramics International, 2010, 36, 1303-1309.	2.3	35
94	Removal of detergents and fats from waste water using allophane. Applied Clay Science, 2010, 47, 325-329.	2.6	17
95	Proton donor-acceptor property of matrix during the sol-gel reaction. Research on Chemical Intermediates, 2009, 35, 227-240.	1.3	3
96	Photocatalytic degradation of trichloroethylene using N-doped TiO ₂ prepared by a simple sol-gel process. Research on Chemical Intermediates, 2009, 35, 43-53.	1.3	55
97	Growth and characterization of pyrene crystals on carbon nanofibers. Journal of Photochemistry and Photobiology A: Chemistry, 2009, 206, 148-154.	2.0	2
98	Photo-electric conversion in dye-doped nanocrystalline titania films. Journal of Photochemistry and Photobiology A: Chemistry, 2009, 207, 204-208.	2.0	18
99	Photochemical deposition of Ag nanoparticles on multiwalled carbon nanotubes. Carbon, 2009, 47, 2752-2754.	5.4	59
100	Spectroscopic Evaluation of the Length of Poly(ethylene glycol) Covalently Attached to Multiwalled Carbon Nanotubes. Chemistry Letters, 2009, 38, 890-891.	0.7	6
101	In situ probing of acidic groups on acid-treated carbon nanofibers using 1-aminopyrene. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 193, 161-165.	2.0	10
102	Laser-enhanced Dispersion of Multiwalled Carbon Nanotubes in Acetonitrile. Chemistry Letters, 2008, 37, 1112-1113.	0.7	2
103	Enhanced Photocurrent in Nanocomposite of Dye-doped Titania Gel and Carbon Nanotubes. Chemistry Letters, 2008, 37, 940-941.	0.7	4
104	Change in Titania Structure from Amorphousness to Crystalline Increasing Photoinduced Electron-Transfer Rate in Dye-Titania System. Journal of Physical Chemistry C, 2007, 111, 9008-9011.	1.5	49
105	Fluorescence observation of pyrene adsorbed on carbon nanofibers. Chemical Physics Letters, 2007, 448, 218-222.	1.2	11
106	Chelation of spironaphthoxazine with zinc ions and its photochromic behavior during the sol-gel-xerogel transitions of alkyl silicon alkoxide. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 189, 46-54.	2.0	15
107	Effect of steam treatment on photocurrent and dye-titania interaction in dye-doped titania gel. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 192, 220-225.	2.0	22
108	Zinc Chelation and Photofluorochemical Behavior of Spironaphthoxazine Intercalated into Hydrophobically Modified Montmorillonite. Langmuir, 2006, 22, 3376-3380.	1.6	16

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109	Matrix isolation and theoretical study on the photolysis of trichloroacetyl chloride. <i>Chemical Physics Letters</i> , 2006, 423, 434-438.	1.2	8
110	Possibility of conformation control of Micheler's ketone encapsulated into sol-gel matrices. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006, 179, 156-160.	2.0	2
111	Photocurrent observed in dye-doped titania gel. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006, 179, 125-129.	2.0	32
112	Chelation of spironaphthoxazine with zinc ions during the sol-gel-xerogel transitions in silicon alkoxide systems. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006, 183, 53-58.	2.0	12
113	Quantitative characterization of surface adsorption sites of carbon nanofibers by in-situ fluorescence measurement using 1-naphthol. <i>Chemical Physics Letters</i> , 2005, 412, 223-227.	1.2	12
114	Relationships Between Fluorescence Properties of Benzoquinolines and Physicochemical Changes in the Sol-Gel-Xerogel Transitions of Silicon Alkoxide Systems. <i>Journal of Sol-Gel Science and Technology</i> , 2005, 33, 333-340.	1.1	10
115	Dispersion of Acid-Treated Carbon Nanofibers into Gel Matrices Prepared by the Sol-Gel Method. <i>Journal of Physical Chemistry B</i> , 2005, 109, 23170-23174.	1.2	22
116	Theoretical studies on carbonyl halide-water complexes. <i>Chemical Physics</i> , 2004, 306, 25-34.	0.9	3
117	In situ characterization of surface physicochemical properties of carbon nanofibers using 1-naphthol as a fluorescent probe. <i>Chemical Physics Letters</i> , 2004, 390, 389-393.	1.2	12
118	Ab initio study on the $(O_2 \cdots HCl)^+$ complex. <i>Chemical Physics Letters</i> , 2004, 397, 62-66.	1.2	2
119	Solvent effect on fluorescence spectra of a spirooxazine. <i>Research on Chemical Intermediates</i> , 2003, 29, 485-493.	1.3	20
120	Degradation and isomerization of 1,2-dichloroethenes by photocatalytic reactions. <i>Research on Chemical Intermediates</i> , 2003, 29, 827-837.	1.3	5
121	Photocatalytic degradation of chlorinated ethenes. <i>International Journal of Photoenergy</i> , 2003, 5, 11-15.	1.4	21
122	Title is missing!. <i>Journal of Sol-Gel Science and Technology</i> , 2001, 20, 95-104.	1.1	11
123	Intercalation of Spirooxazine Induced by Zinc Cation Chelation in Montmorillonite and Its Photochromic Behavior. <i>Chemistry Letters</i> , 2000, 29, 1142-1143.	0.7	18
124	Influence of water on molecular forms of rhodamine B in dip-coated thin films. <i>Research on Chemical Intermediates</i> , 2000, 26, 469-482.	1.3	12
125	Acid-Base and Monomer-Dimer Equilibria of Methylene Blue in Dip-Coated Thin Films. <i>Bulletin of the Chemical Society of Japan</i> , 1999, 72, 915-921.	2.0	32
126	Molecular Forms of Rhodamine B in Dip-Coated Thin Films. <i>Journal of Physical Chemistry B</i> , 1997, 101, 3680-3687.	1.2	68

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127	Absorption and fluorescence spectra of 9-anthrol and its chemical species in solution. Research on Chemical Intermediates, 1997, 23, 829-839.	1.3	11
128	Absorption spectra of rhodamine B dimers in dip-coated thin films prepared by the sol-gel method. Chemical Physics Letters, 1995, 233, 424-429.	1.2	90
129	Formation of alkali metal titanate nanocrystals using titanium alkoxide. Research on Chemical Intermediates, 0, , 1.	1.3	0
130	Observation of Excited State Proton Transfer between the Titania Surface and Dye Molecule by Time-Resolved Fluorescence Spectroscopy. Journal of Physical Chemistry C, 0, , .	1.5	1