

Shota Kuwahara

List of Publications by Year in descending order

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42
papers

608
citations

623734

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24
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42
all docs

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docs citations

42
times ranked

1125
citing authors

#	ARTICLE	IF	CITATIONS
1	Tip-enhanced nano-Raman analytical imaging of locally induced strain distribution in carbon nanotubes. <i>Nature Communications</i> , 2013, 4, 2592.	12.8	117
2	Quantum Yield Enhancement in Graphene Quantum Dots via Esterification with Benzyl Alcohol. <i>Scientific Reports</i> , 2019, 9, 14115.	3.3	46
3	Fabrication and characterization of high-resolution AFM tips with high-quality double-wall carbon nanotubes. <i>Chemical Physics Letters</i> , 2006, 429, 581-585.	2.6	33
4	Synthesis and spectroscopic characterization of single-wall carbon nanotubes wrapped by glycoconjugate polymer with bioactive sugars. <i>Chemical Physics Letters</i> , 2006, 428, 98-101.	2.6	30
5	Charge carrier kinetics in hematite with NiFeOx coating in aqueous solutions: Dependence on bias voltage. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 353, 344-348.	3.9	30
6	Photoexcited carrier dynamics of double-layered CdS/CdSe quantum dot sensitized solar cells measured by heterodyne transient grating and transient absorption methods. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 5774.	2.8	29
7	Distinction of electron pathways at titanium oxide/liquid interfaces in photocatalytic processes and co-catalyst effects. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 25271-25276.	2.8	26
8	The cause for the low efficiency of dye sensitized solar cells with a combination of ruthenium dyes and cobalt redox. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 10170-10175.	2.8	24
9	Investigation of Photoexcited Carrier Dynamics in Hematite and the Effect of Surface Modifications by an Advanced Transient Grating Technique. <i>ACS Omega</i> , 2017, 2, 1031-1035.	3.5	23
10	Detection of non-absorbing charge dynamics via refractive index change in dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 5975.	2.8	20
11	Carrier dynamics in quantum-dot sensitized solar cells measured by transient grating and transient absorption methods. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 11006.	2.8	18
12	The whole process of phase transition and relaxation of poly(N-isopropylacrylamide) aqueous solution. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 3814.	2.8	17
13	Effect of electrolyte constituents on the motion of ionic species and recombination kinetics in dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 5242.	2.8	17
14	Localized Surface Plasmon Resonance-Induced Welding of Gold Nanotriangles and the Local Plasmonic Properties for Multicolor Sensing and Light-Harvesting Applications. <i>ACS Applied Nano Materials</i> , 2020, 3, 5172-5177.	5.0	16
15	Molecular dynamics in azobenzene liquid crystal polymer films measured by time-resolved techniques. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 10485.	2.8	15
16	Determining exact molar absorbance coefficients of single-wall carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 1091.	2.8	14
17	Role of lithium and co-existing cations in electrolyte to improve performance of dye-sensitized solar cells. <i>RSC Advances</i> , 2014, 4, 21517-21520.	3.6	14
18	Disorder/reorientation dynamics of 4-methoxybenzylidene-4-n-butylaniline observed by heterodyne transient grating method. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 266, 1-5.	3.9	13

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19	SYNTHESIS AND SPECTROSCOPIC CHARACTERIZATION OF SALMON DNA-WRAPPED SINGLE-WALL CARBON NANOTUBES. <i>Nano</i> , 2007, 02, 295-299.	1.0	11
20	The effect of CdS on the charge separation and recombination dynamics in PbS/CdS double-layered quantum dot sensitized solar cells. <i>Chemical Physics</i> , 2016, 478, 159-163.	1.9	10
21	A novel photocatalytic microreactor bundle that does not require an electric power source. <i>Chemical Communications</i> , 2012, 48, 7368.	4.1	9
22	Novel method of screening the oxidation and reduction abilities of photocatalytic materials. <i>Analyst</i> , 2014, 139, 1953-1959.	3.5	9
23	Subnanometric stabilization of plasmon-enhanced optical microscopy. <i>Nanotechnology</i> , 2012, 23, 205503.	2.6	8
24	Quantitative Analysis of Isolated Single-Wall Carbon Nanotubes with Their Molar Absorbance Coefficients. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-7.	2.7	7
25	Aqueous synthesis of protectant-free copper nanocubes by a disproportionation reaction of Cu ₂ O on synthetic saponite. <i>Chemical Communications</i> , 2018, 54, 8454-8457.	4.1	7
26	Local Extraction and Condensation under a Microscope Using the Optically Controlled Phase Separation of a Thermoresponsive Polymer. <i>Chemistry - an Asian Journal</i> , 2013, 8, 108-112.	3.3	6
27	Host-guest molecular interactions in the phase transition of liquid crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2017, 644, 44-51.	0.9	6
28	Study on Photocatalytic Organic Reactions Using Photocatalytic Microreactors. <i>Analytical Sciences</i> , 2014, 30, 619-621.	1.6	5
29	Curing Dynamics of Photopolymers Measured by Single-shot Heterodyne Transient Grating Method. <i>Analytical Sciences</i> , 2013, 29, 401-404.	1.6	4
30	Selective extraction of semiconducting single-walled carbon nanotubes with a thermoresponsive polymer. <i>Chemical Communications</i> , 2018, 54, 3026-3029.	4.1	4
31	A new AFM-HRTEM combined technique for probing isolated carbon nanotubes. <i>Nanotechnology</i> , 2009, 20, 225702.	2.6	3
32	Photo and Thermal Control of Liposome Solubilization. <i>Bulletin of the Chemical Society of Japan</i> , 2013, 86, 1071-1075.	3.2	3
33	Depth-selective microscopic observation of a photomobile liquid crystal polymer under UV illumination. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 27074-27077.	2.8	3
34	Specific interaction between dyes and ions in dye-sensitized solar cells observed with temporal spectral shift of dyes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 334, 107-112.	3.9	3
35	Optimization of Experimental Parameters for the Performance of Solid-state Dye-sensitized Solar Cells. <i>Analytical Sciences</i> , 2017, 33, 1041-1046.	1.6	3
36	Role of constituents for the chirality isolation of single-walled carbon nanotubes by the reversible phase transition of a thermoresponsive polymer. <i>RSC Advances</i> , 2020, 10, 24570-24576.	3.6	3

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37	Recent Advances in Nanocarbon Materials. Journal of Nanomaterials, 2014, 2014, 1-2.	2.7	2
38	Molecular dynamics in azobenzene liquid crystal polymer films studied by transient grating technique. , 2014, , .		0
39	Blocking Effect for Carrier Transfer to Triiodide in Alkyl-Functionalized Dyes in Dye-Sensitized Solar Cell. Bulletin of the Chemical Society of Japan, 2015, 88, 1308-1313.	3.2	0
40	Direct evidence of the molecular interaction propagation in the phase transition of liquid crystals. Proceedings of SPIE, 2016, , .	0.8	0
41	Anomalous enhancement by alkylamine of the dye-sensitized solar cells using TEMPO redox. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 346, 281-286.	3.9	0
42	Distinction between reactive and non-reactive trap states in photocatalytic reactions revealed by transient grating technique. Proceedings of SPIE, 2016, , .	0.8	0