Shota Kuwahara

List of Publications by Year
in descending order

42 papers	608 citations	623734 14 h-index	610901 24 g-index
42 all docs	42 docs citations	42 times ranked	1125 citing authors

#	Article	IF	Citations
1	Role of constituents for the chirality isolation of single-walled carbon nanotubes by the reversible phase transition of a thermoresponsive polymer. RSC Advances, 2020, 10, 24570-24576.	3.6	3
2	Localized Surface Plasmon Resonance-Induced Welding of Gold Nanotriangles and the Local Plasmonic Properties for Multicolor Sensing and Light-Harvesting Applications. ACS Applied Nano Materials, 2020, 3, 5172-5177.	5.0	16
3	Quantum Yield Enhancement in Graphene Quantum Dots via Esterification with Benzyl Alcohol. Scientific Reports, 2019, 9, 14115.	3.3	46
4	Selective extraction of semiconducting single-walled carbon nanotubes with a thermoresponsive polymer. Chemical Communications, 2018, 54, 3026-3029.	4.1	4
5	Charge carrier kinetics in hematite with NiFeOx coating in aqueous solutions: Dependence on bias voltage. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 353, 344-348.	3.9	30
6	Aqueous synthesis of protectant-free copper nanocubes by a disproportionation reaction of Cu₂O on synthetic saponite. Chemical Communications, 2018, 54, 8454-8457.	4.1	7
7	Host-guest molecular interactions in the phase transition of liquid crystals. Molecular Crystals and Liquid Crystals, 2017, 644, 44-51.	0.9	6
8	Investigation of Photoexcited Carrier Dynamics in Hematite and the Effect of Surface Modifications by an Advanced Transient Grating Technique. ACS Omega, 2017, 2, 1031-1035.	3.5	23
9	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
10	Specific interaction between dyes and ions in dye-sensitized solar cells observed with temporal spectral shift of dyes. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 334, 107-112.	3.9	3
11	Optimization of Experimental Parameters for the Performance of Solid-state Dye-sensitized Solar Cells. Analytical Sciences, 2017, 33, 1041-1046.	1.6	3
12	The effect of CdS on the charge separation and recombination dynamics in PbS/CdS double-layered quantum dot sensitized solar cells. Chemical Physics, 2016, 478, 159-163.	1.9	10
13	Direct evidence of the molecular interaction propagation in the phase transition of liquid crystals. Proceedings of SPIE, 2016, , .	0.8	0
14	Distinction of electron pathways at titanium oxide/liquid interfaces in photocatalytic processes and co-catalyst effects. Physical Chemistry Chemical Physics, 2016, 18, 25271-25276.	2.8	26
15	Distinction between reactive and non-reactive trap states in photocatalytic reactions revealed by transient grating technique. Proceedings of SPIE, 2016, , .	0.8	0
16	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
17	The cause for the low efficiency of dye sensitized solar cells with a combination of ruthenium dyes and cobalt redox. Physical Chemistry Chemical Physics, 2015, 17, 10170-10175.	2.8	24
18	Recent Advances in Nanocarbon Materials. Journal of Nanomaterials, 2014, 2014, 1-2.	2.7	2

#	Article	IF	Citations
19	Quantitative Analysis of Isolated Single-Wall Carbon Nanotubes with Their Molar Absorbance Coefficients. Journal of Nanomaterials, 2014, 2014, 1-7.	2.7	7
20	Depth-selective microscopic observation of a photomobile liquid crystal polymer under UV illumination. Physical Chemistry Chemical Physics, 2014, 16, 27074-27077.	2.8	3
21	Effect of electrolyte constituents on the motion of ionic species and recombination kinetics in dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2014, 16, 5242.	2.8	17
22	Role of lithium and co-existing cations in electrolyte to improve performance of dye-sensitized solar cells. RSC Advances, 2014, 4, 21517-21520.	3.6	14
23	Novel method of screening the oxidation and reduction abilities of photocatalytic materials. Analyst, The, 2014, 139, 1953-1959.	3.5	9
24	Molecular dynamics in azobenzene liquid crystal polymer films measured by time-resolved techniques. Physical Chemistry Chemical Physics, 2014, 16, 10485.	2.8	15
25	Photoexcited carrier dynamics of double-layered CdS/CdSe quantum dot sensitized solar cells measured by heterodyne transient grating and transient absorption methods. Physical Chemistry Chemical Physics, 2014, 16, 5774.	2.8	29
26	Study on Photocatalytic Organic Reactions Using Photocatalytic Microreactors. Analytical Sciences, 2014, 30, 619-621.	1.6	5
27	Molecular dynamics in azobenzene liquid crystal polymer films studied by transient grating technique. , 2014, , .		0
28	Tip-enhanced nano-Raman analytical imaging of locally induced strain distribution in carbon nanotubes. Nature Communications, 2013, 4, 2592.	12.8	117
29	Detection of non-absorbing charge dynamics via refractive index change in dye-sensitized solar cells. Physical Chemistry Chemical Physics, 2013, 15, 5975.	2.8	20
30	Local Extraction and Condensation under a Microscope Using the Optically Controlled Phase Separation of a Thermoresponsive Polymer. Chemistry - an Asian Journal, 2013, 8, 108-112.	3.3	6
31	Disorder/reorientation dynamics of 4-methoxybenzylidene-4-n-butylaniline observed by heterodyne transient grating method. Journal of Photochemistry and Photobiology A: Chemistry, 2013, 266, 1-5.	3.9	13
32	The whole process of phase transition and relaxation of poly(N-isopropylacrylamide) aqueous solution. Physical Chemistry Chemical Physics, 2013, 15, 3814.	2.8	17
33	Carrier dynamics in quantum-dot sensitized solar cells measured by transient grating and transient absorption methods. Physical Chemistry Chemical Physics, 2013, 15, 11006.	2.8	18
34	Curing Dynamics of Photopolymers Measured by Single-shot Heterodyne Transient Grating Method. Analytical Sciences, 2013, 29, 401-404.	1.6	4
35	Photo and Thermal Control of Liposome Solubilization. Bulletin of the Chemical Society of Japan, 2013, 86, 1071-1075.	3.2	3
36	Subnanometric stabilization of plasmon-enhanced optical microscopy. Nanotechnology, 2012, 23, 205503.	2.6	8

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37	A novel photocatalytic microreactor bundle that does not require an electric power source. Chemical Communications, 2012, 48, 7368.	4.1	9
38	Determining exact molar absorbance coefficients of single-wall carbon nanotubes. Physical Chemistry Chemical Physics, 2009, 11, 1091.	2.8	14
39	A new AFMâ€“HRTEM combined technique for probing isolated carbon nanotubes. Nanotechnology, 2009, 20, 225702.	2.6	3
40	SYNTHESIS AND SPECTROSCOPIC CHARACTERIZATION OF SALMON DNA-WRAPPED SINGLE-WALL CARBON NANOTUBES. Nano, 2007, 02, 295-299.	1.0	11
41	Synthesis and spectroscopic characterization of single-wall carbon nanotubes wrapped by glycoconjugate polymer with bioactive sugars. Chemical Physics Letters, 2006, 428, 98-101.	2.6	30
42	Fabrication and characterization of high-resolution AFM tips with high-quality double-wall carbon nanotubes. Chemical Physics Letters, 2006, 429, 581-585.	2.6	33