

#	Title	Authors	Journal name	Volume (Number)	Pages	Year
110	Blocking Effect for Carrier Transfer to Triiodide in case of Alkyl Functionalized Dyes in Dye Sensitized Solar Cel	K. Omata S. Kuwahara R. Hosokawa T. Nishimura S. Qing T. Toyoda K. Katayama Q. Shen	Bull. Chem. Soc. Jpn.	88	1308-1313	2015
109	Optical Absorption, Charge Separation and Recombination Dynamics in Sn/Pb Cocktail Perovskite Solar Cells and Their Relationships to the Photovoltaic Performance	Y. Ogomi J. Chang T. Toyoda K. Fujiwara K. Yoshino K. Sato K. Yamazaki M. Akimoto Y. Kuga K. Katayama S. Hayase	Journal of Material Chemistry A			
108	The cause for the low efficiency of dye sensitized solar cells with the combination of Ruthenium dyes and Cobalt redox	K. Omata S. Kuwahara K. Katayama Q. Shen T. Toyoda K. M. Lee C. G. Wu	Physical Chemistry Chemical Physics	17	10170-10175	2015

107	Evaluation of the Water-treatment Ability of Silica-doped Titanium Dioxide-coated Glass Plates Using a Cationic Coupling Reagent Based on a Flow Analytical System	T. Sugita M. Mori A. Mase S. Noguchi T. Tokutome K. Fujiii C. Hara K. Katayama S. Iwamoto H. Itabashi	Analytical Sciences	31(1)	15-21	2015
106	Depth-selective microscopic observation of photomobile liquid crystal polymer under UV illumination	K. Katayama Y. Choi J. W. Kang Z. Yaquob P. T. C. So T. Fujiii S. Kuwahara T. Ikeda	Physical Chemistry Chemical Physics	16(48)	27074-47077	2014
105	Study on photocatalytic organic reactions using photocatalytic microreactors	K. Shimaoka S. Kuwahara M. Yamashita K. Katayama	Analytical Sciences	30(5)	6190621	2014
104	Molecular dynamics in azobenzene liquid crystal polymer films measured by time-resolved techniques	T. Fujii S. Kuwahara K. Katayama K. Takado T. Ube T. Ikeda	Physical Chemistry Chemical Physics	16(22)	10485-10490	2014

103	Novel screening method of oxidation and reduction abilities for photocatalytic materials	K. Katayama Y. Takeda K. Shimaoka K. Yoshida R. Shimizu T. Ishiwata A. Nakamura S. Kuwahara A. Mase T. Sugita M. Mori	Analyst	139(8)	1953-1959	2014
102	Photoexcited carrier dynamics of double-layered CdS/CdSe quantum dot sensitized solar cells measured by heterodyne transient grating and transient absorption methods	N. Osada T. Oshima S. Kuwahara T. Toyoda Q. Shen K. Katayama	Physical Chemistry Chemical Physics	16(12)	5774-5778	2014
101	マイクロ(スモール)スケール実験手法を用いた大学向け物理化学実験教育	栗原彰太 片山建二	化学と教育	62(2)	94-97	2014
100	Effect of electrolyte constituents on the motion of ionic species and recombination kinetics in dye-sensitized solar cell	S. Kuwahara S. Taya N. Osada Q. Shen T. Toyoda K. Katayama	Physical Chemistry Chemical Physics	16(11)	5242-5249	2014
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97	Photo and Thermal Control of Liposome Solubilization	Takashi Igarashi Shota Kuwahara Kenji Katayama	Bull. Chem. Soc. Jpn.	86	1071-1075	2013
96	Disorder /Reorientation dynamics of 4-methoxybenzylidene-4-n-butylaniline observed by heterodyne transient grating method	Takaki Chiba Hayato Inoue Shota Kuwahara Kenji Katayama	Journal of Photochemistry and Photobiology A: Chemistry	266	pp.1-5	2013
95	Carrier dynamics in quantum-dot sensitized solar cells measured by transient grating and transient absorption methods	Naotaka Maeda Hiroaki Hata Naoto Osada Qign Shen Taro Toyoda Shota Kuwahara Kenji Katayama	Physical Chemistry Chemical Physics	15	11006-11013	2013
94	Study of vanadium-modified N/Si co-doped TiO ₂ in aqueous solution and its photocatalytic activity	Akinori Mase Tsuyoshi Sugita Masanobu Mori Shingi Iwamoto Toru Tokutome Kenji Katayama Hideyuki Itabashi	Chemical Engineering Journal	225	440-446	2013

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91	The whole process of phase transition and relaxation of poly(N-isopropylacrylamide) aqueous solution	Hayato Inoue Shota Kuwahara Kenji Katayama	Physical Chemistry Chemical Physics	15(11)	3814-3819	2013
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86	Liposome solubilization induced by surfactant molecules in a microchip	Yuri Shoji Takashi Igarashi Hiroko Nomura Takeshi Eitoku Kenji Katayama	Analytical Sciences	28	339-344	2012
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84	Liposome solubilization behavior of dimiristoylphosphatidylcholine liposomes induced by sodium dodecyl	Takashi Igarashi Yuri Shoji Kenji Katayama	Analytical Sciences	28	345-350	2012
83	Multiple electron injection dynamics in linearly-linked two dye co-sensitized nanocrystalline metal oxide electrodes for dye-sensitized solar cells	Qing Shen Yuhei Ogomi Byung-wook Park Takafumi Inoue Shyam S. Pandey Akari Miyamoto Shinsuke Fujita Kenji Katayama Taro Toyoda	Physical Chemistry Chemical Physics	12	4605-4613	2012
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75	Comparative investigation of Au nanoparticle formation process dependent upon various protective agents	Takeshi Eitoku Kazuya Taniguchi Yuta Nakazato Kenji Katayama	Optical Review	17(1)	264-268	2010
74	Heterodyne dynamic light scattering using a transmission grating for the size measurement of nanoparticles for the micri fluidic systems	Hiroko Nomura Hiroki Ogata Takeshi Eitoku Kenji Katayama	Proceedings of MicroTAS 2009		p.329-331	2009
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55	Characterization of electron transfer from CdSe quantum dots to nanostructured TiO ₂ electrode using a near-field heterodyne transient grating	Qing Shen <u>Kenji Katayama</u> Tsuguo Sawada Taro Toyoda	Thin Solid Films	516(17)	5927-5930	2008
54	In-situ microfluidic flow rate measurement based on near-field heterodyne grating method	<u>Kenji Katayama</u> Hisato Uchimura Hitomi Sakakibara Yoshikuni	Rev. Sci. Instrum.	78	083101-083107	2007

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51	Phonon polariton generation and detection using near-field heterodyne transient grating method	<u>Kenji Katayama</u> Qing Shen Taro Toyoda Keith A Nelson	Applied Physics Letters	90	171117-171119	2007
50	Ultrafast charge transfer in surface-enhanced Raman scattering processes using transient reflecting grating	Kohei Shibamoto <u>Kenji Katayama</u> Tsuguo Sawada	Chemical Physics Letters	433 (4-6)	385-389	2007
49	Preparation of Highly Concentrated Aqueous Solution of Sodium Borate	Isao Tsuyumoto <u>Kenji Katayama</u> Tomokazu Ohio	Inorganic Chemistry Communications	10(1)	20-22	2007
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47	Flow Velocity Detector in a Microchip Based on Photothermally Induced Grating	<u>Kenji Katayama</u> Yoshikuni Kikutani Takehiko	Analytical Sciences	23, 6	639-644	2007

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43	In-situ flow velocimeter in microchip using near-field heterodyne grating method	<u>Kenji Katayama</u> Yoshikuni Kikutani Takehiko Yoshikuni	Proceedings of mTAS 2006 Conference		1298-1300	2006
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5	Detection of Photoinduced Electronic, Thermal, and Acoustic Dynamics of Gold Film Using a Transient Reflecting Grating Method Under Three Types of Surface Plasmon Resonance Conditions	<u>Kenji Katayama</u> Qing Shen Akira Harata Tsuguo Sawada	Phys. Rev. B	58(13)	8428-8436	1998
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