Eiji Tokunaga

List of Publications by Year
in descending order

60	603	687363 13	713466 21
papers	citations	h-index	g-index

63	63	63	605
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Development of a multiplex stimulated Raman microscope for spectral imaging through multi-channel lock-in detection. Review of Scientific Instruments, 2013, 84, 083705.	1.3	57
2	Optical frequency- and vibrational time-resolved two-dimensional spectroscopy by real-time impulsive resonant coherent Raman scattering in polydiacetylene. Physical Review A, 2004, 70, .	2.5	54
3	Surface Plasmon Polariton Resonance of Gold, Silver, and Copper Studied in the Kretschmann Geometry: Dependence on Wavelength, Angle of Incidence, and Film Thickness. Journal of the Physical Society of Japan, 2017, 86, 124721.	1.6	33
4	Multiplex stimulated Raman imaging with white probe-light from a photonic-crystal fibre and with multi-wavelength balanced detection. Journal Physics D: Applied Physics, 2014, 47, 345401.	2.8	23
5	Giant electrooptic response of excitons in porphyrin J-aggregates. Chemical Physics Letters, 2005, 408, 186-191.	2.6	22
6	Giant electrooptic response of excitons in porphyrin J-aggregates. Chemical Physics Letters, 2005, 410, 18-23.	2.6	21
7	Pockels effect of water in the electric double layer at the interface between water and transparent electrode. Surface Science, 2007, 601, 735-741.	1.9	21
8	Excimer Luminescence From Nonresonantly Excited Pyrene and Perylene Molecules in Solution. Journal of Physical Chemistry A, 2013, 117, 11449-11455.	2.5	21
9	Gigantic optical Pockels effect in water within the electric double layer at the electrode-solution interface. Physical Review B, 2008, 77, .	3.2	19
10	Inverse exciton series in the optical decay of an excitonic molecule. Physical Review B, 1999, 59, R7837-R7840.	3.2	18
11	Electric field-controlled dissociation and association of porphyrin J-aggregates in aqueous solution. Physical Chemistry Chemical Physics, 2011, 13, 17756.	2.8	16
12	Fluorescence anisotropy in indole under two-photon excitation in the spectral range 385â€“510 nm. Physical Chemistry Chemical Physics, 2018, 20, 19922-19931.	2.8	14
13	Mechanism for giant electrooptic response of excitons in porphyrin J-aggregates: Molecular rearrangement model. Chemical Physics Letters, 2009, 477, 150-155.	2.6	13
14	Electrooptic effect of water in electric double layer at interface of GaN electrode. Optical Review, 2010, 17, 352-356.	2.0	13
15	Anomalously large electro-optic Pockels effect at the air-water interface with an electric field applied parallel to the interface. Applied Physics Letters, 2016, 108, .	3.3	12
16	Hydrogen photoproduction in green algae Chlamydomonas reinhardtii sustainable over 2Âweeks with the original cell culture without supply of fresh cells nor exchange of the whole culture medium. Journal of Plant Research, 2016, 129, 771-779.	2.4	12
17	Hopfield coefficients measured by inverse polariton series. Physical Review B, 2001, 63, .	3.2	11
18	Mechanism for giant electro-optic response of porphyrin J-aggregates in polymer film and aqueous solution. Optical Review, 2010, 17, 346-351.	2.0	11

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19	Scan-Free Absorbance Spectral Imaging A(x, y, Î») of Single Live Algal Cells for Quantifying Absorbance of Cell Suspensions. PLoS ONE, 2015, 10, e0128002.	2.5	11
20	Bipolariton coupling in biexciton optical decay: Degenerate and nondegenerate polariton emissions in CuCl. Physical Review B, 2001, 64, .	3.2	10
21	Deflection switching of a laser beam by the Pockels effect of water. Applied Physics Letters, 2012, 100, 171108.	3.3	10
22	Electrooptic Kerr effect of porphyrin H-aggregates in polymer films: Polymer specific spectral blue shift. Chemical Physics, 2016, 469-470, 88-96.	1.9	10
23	Giant Pockels effect of polar organic solvents and water in the electric double layer on a transparent electrode. RSC Advances, 2017, 7, 45682-45690.	3.6	10
24	Effect of light scattering on the transmission spectra of organic nanocrystals. Applied Physics Letters, 2011, 99, 053304.	3.3	9
25	Electric-Field Induced Shift in the Plasmon Resonance Due to the Interfacial Pockels Effect of Water on a Silver Surface. Applied Sciences (Switzerland), 2021, 11, 2152.	2.5	9
26	Noninvasive and safe cell viability assay forEuglena gracilisusing natural food pigment. PeerJ, 2019, 7, e6636.	2.0	9
27	Absorption and emission spectra of molecular excitons in single perylene nanocrystals. Physical Review B, 2011, 84, .	3.2	8
28	Sub-10 fs spectroscopy of K-TCNQ crystal for observation of intramolecular vibration modulation in melting of the Peierls dimer. Physical Review B, 2014, 90, .	3.2	8
29	Quasi first-order Hermite Gaussian beam for enhanced sensitivity in Sagnac interferometer photothermal deflection spectroscopy. Optics Express, 2016, 24, 11961.	3.4	8
30	Nonlinear absorption microspectroscopy of single perylene nanocrystals with a multichannel double lock-in amplifier. Optical Review, 2010, 17, 337-340.	2.0	7
31	Sagnac interferometer for photothermal deflection spectroscopy. Optics Letters, 2012, 37, 2655.	3.3	7
32	Development of a balanced detector with biased synchronous detection and application to near shot noise limited noise cancelling of supercontinuum pulse light. Review of Scientific Instruments, 2014, 85, 023702.	1.3	7
33	Optical size effect of organic nanocrystals studied by absorption spectroscopy within an integrating sphere. Chemical Physics Letters, 2014, 601, 128-133.	2.6	7
34	Absorbance spectroscopy of light scattering samples placed inside an integrating sphere for wide dynamic range absorbance measurement. Review of Scientific Instruments, 2021, 92, 123103.	1.3	7
35	Mechanisms of the anomalous Pockels effect in bulk water. Optical Review, 2018, 25, 205-214.	2.0	6
36	Noninvasive and safe cell viability assay for Paramecium using natural pigment extracted from food. Scientific Reports, 2020, 10, 10996.	3.3	6

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37	Noninvasive and Safe Cell Viability Assay for Breast Cancer MCF-7 Cells Using Natural Food Pigment. Biology, 2020, 9, 227.	2.8	6
38	Giant Pockels effect in an electrode-water interface for a â€œliquidâ€•light modulator. OSA Continuum, 2019, 2, 3358.	1.8	6
39	Vibrational Energy Flow between Modes by Dynamic Mode Coupling in THIATS J-Aggregates. Journal of Physical Chemistry A, 2013, 117, 11441-11448.	2.5	4
40	Plasmon Modulation Spectroscopy of Noble Metals to Reveal the Distribution of the Fermi Surface Electrons in the Conduction Band. Applied Sciences (Switzerland), 2017, 7, 1315.	2.5	4
41	Accurate modeling of electron-hole binding in CuCl. I. Exciton states. Physical Review B, 2020, 102, .	3.2	4
42	Visible nonlinear band-edge luminescence in ZnSe and CdS excited by a mid-infrared free-electron laser. Optical Review, 2010, 17, 341-345.	2.0	3
43	GIANT ELECTROOPTIC EFFECT OF PORPHYRIN J-AGGREGATES IN POLYMER FILM AND IN AQUEOUS SOLUTION. , 2012, , 213-246.		3
44	Orientation Control of Hemispherical Janus Particles and Metal Coating on the Selective Surface To Excite Surface Plasmon Polaritons in the Micro-Kretschmann Geometry. Langmuir, 2017, 33, 14684-14690.	3.5	3
45	External Field Response and Applications of Metal Coated Hemispherical Janus Particles. Applied Sciences (Switzerland), 2018, 8, 653.	2.5	3
46	Absorbance spectra of the hematochrome-like granules and eyespot of Euglena gracilis by scan-free absorbance spectral imaging A(x, y, Î») within the live cells. Journal of Plant Research, 2019, 132, 431-438.	2.4	3
47	Solvent Effects in Highly Efficient Light-Induced Molecular Aggregation. Applied Sciences (Switzerland), 2019, 9, 5381.	2.5	3
48	Efficient Molecular Aggregation of Rhodamine 6G and Pseudoisocyanine by Light-Induced Force. Applied Sciences (Switzerland), 2020, 10, 3563.	2.5	3
49	Thermal Relaxation Spectra for Evaluating Luminescence Quantum Efficiency of CASN:Eu2+ Measured by Balanced-Detection Sagnac-Interferometer Photothermal Deflection Spectroscopy. Applied Sciences (Switzerland), 2020, 10, 1008.	2.5	3
50	Anisotropic optical response of InP self-assembled quantum dots studied by pump-probe spectroscopy. Physical Review B, 2007, 75, .	3.2	2
51	Cross-shaped photoluminescence of excimers in perylene crystals. Optical Review, 2016, 23, 373-381.	2.0	2
52	More Than 50-Fold Enhanced Nonlinear Optical Response of Porphyrin Molecules in Aqueous Solution Induced by Mixing Base and Organic Solvent. Applied Sciences (Switzerland), 2021, 11, 4892.	2.5	2
53	Extremely large electrooptic effect of the TPPS J-aggregates in PVA, PVP polymer matrix and aqueous solution.. Physical Chemistry Chemical Physics, 2022, , .	2.8	2
54	Amplitude-phase cross talk as a deterioration factor of signal-to-noise ratio in phase-detection noise-cancellation technique for spectral pump/probe measurements and compensation of the amplitude-phase cross talk. Review of Scientific Instruments, 2018, 89, 063111.	1.3	1

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55	Proofâ€ofâ€Principle Experiment of the Pseudorandom Multiplexing of Whiteâ€Pump Light for Spectral Photothermal Microscopy. Annalen Der Physik, 2020, 532, 2000241.	2.4	1
56	Accurate modeling of electron-hole binding in CuCl. II. Biexciton wavefunction. Physical Review B, 2020, 102, .	3.2	1
57	Noise cancellation of white pulsed light with pulse-to-pulse observation of probe and reference pulses in spectral pump/probe measurement. Journal of Physics Communications, 2020, 4, 125009.	1.2	1
58	Interfacial Pockels Effect of Solvents with a Larger Static Dielectric Constant than Water and an Ionic Liquid on the Surface of a Transparent Oxide Electrode. Applied Sciences (Switzerland), 2022, 12, 2454.	2.5	1
59	Coherent Perfect Absorption in a Transparent Polymer Film on a Transparent Substrate Utilizing Total Internal Reflection by Grazing Incidence. Applied Sciences (Switzerland), 2022, 12, 3633.	2.5	1
60	Algorithm of auto-balancing noise-canceling based on noise correlation for high-speed balancing, high-dynamic range, and robustness against DC-offset drift. Review of Scientific Instruments, 2022, 93, 043105.	1.3	0