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	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
2	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
3	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
4	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
5	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
6	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
7	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
8	Noninvasive and safe cell viability assay for Paramecium using natural pigment extracted from food. Scientific Reports, 2020, 10, 10996.	3.3	6
9	Accurate modeling of electron-hole binding in CuCl. I. Exciton states. Physical Review B, 2020, 102, .	3.2	4
10	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
11	Noninvasive and Safe Cell Viability Assay for Breast Cancer MCF-7 Cells Using Natural Food Pigment. Biology, 2020, 9, 227.	2.8	6
12	Accurate modeling of electron-hole binding in CuCl. II. Biexciton wavefunction. Physical Review B, 2020, 102, .	3.2	1
13	Efficient Molecular Aggregation of Rhodamine 6G and Pseudoisocyanine by Light-Induced Force. Applied Sciences (Switzerland), 2020, 10, 3563.	2.5	3
14	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
15	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
16	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
17	Solvent Effects in Highly Efficient Light-Induced Molecular Aggregation. Applied Sciences (Switzerland), 2019, 9, 5381.	2.5	3
18	Giant Pockels effect in an electrode-water interface for a â€œliquidâ€•light modulator. OSA Continuum, 2019, 2, 3358.	1.8	6

#	Article	IF	Citations
19	Noninvasive and safe cell viability assay forEuglena gracilisusing natural food pigment. PeerJ, 2019, 7, e6636.	2.0	9
20	Mechanisms of the anomalous Pockels effect in bulk water. Optical Review, 2018, 25, 205-214.	2.0	6
21	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
22	External Field Response and Applications of Metal Coated Hemispherical Janus Particles. Applied Sciences (Switzerland), 2018, 8, 653.	2.5	3
23	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
24	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
25	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
26	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
27	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
28	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
29	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
30	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
31	Quasi first-order Hermite Gaussian beam for enhanced sensitivity in Sagnac interferometer photothermal deflection spectroscopy. Optics Express, 2016, 24, 11961.	3.4	8
32	Cross-shaped photoluminescence of excimers in perylene crystals. Optical Review, 2016, 23, 373-381.	2.0	2
33	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
34	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
35	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
36	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

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37	Optical size effect of organic nanocrystals studied by absorption spectroscopy within an integrating sphere. Chemical Physics Letters, 2014, 601, 128-133.	2.6	7
38	Excimer Luminescence From Nonresonantly Excited Pyrene and Perylene Molecules in Solution. Journal of Physical Chemistry A, 2013, 117, 11449-11455.	2.5	21
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	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
41	Sagnac interferometer for photothermal deflection spectroscopy. Optics Letters, 2012, 37, 2655.	3.3	7
42	Deflection switching of a laser beam by the Pockels effect of water. Applied Physics Letters, 2012, 100, 171108.	3.3	10
43	GIANT ELECTROOPTIC EFFECT OF PORPHYRIN J-AGGREGATES IN POLYMER FILM AND IN AQUEOUS SOLUTION. , 2012, , 213-246.		3
44	Electric field-controlled dissociation and association of porphyrin J-aggregates in aqueous solution. Physical Chemistry Chemical Physics, 2011, 13, 17756.	2.8	16
45	Effect of light scattering on the transmission spectra of organic nanocrystals. Applied Physics Letters, 2011, 99, 053304.	3.3	9
46	Absorption and emission spectra of molecular excitons in single perylene nanocrystals. Physical Review B, 2011, 84, .	3.2	8
47	Nonlinear absorption microspectroscopy of single perylene nanocrystals with a multichannel double lock-in amplifier. Optical Review, 2010, 17, 337-340.	2.0	7
48	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
49	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
50	Electrooptic effect of water in electric double layer at interface of GaN electrode. Optical Review, 2010, 17, 352-356.	2.0	13
51	Mechanism for giant electrooptic response of excitons in porphyrin J-aggregates: Molecular rearrangement model. Chemical Physics Letters, 2009, 477, 150-155.	2.6	13
52	Gigantic optical Pockels effect in water within the electric double layer at the electrode-solution interface. Physical Review B, 2008, 77, .	3.2	19
53	Anisotropic optical response of InP self-assembled quantum dots studied by pump-probe spectroscopy. Physical Review B, 2007, 75, .	3.2	2
54	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

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55	Giant electrooptic response of excitons in porphyrin J-aggregates. Chemical Physics Letters, 2005, 410, 18-23.	2.6	21
56	Giant electrooptic response of excitons in porphyrin J-aggregates. Chemical Physics Letters, 2005, 408, 186-191.	2.6	22
57	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
58	Bipolariton coupling in biexciton optical decay: Degenerate and nondegenerate polariton emissions in CuCl. Physical Review B, 2001, 64, .	3.2	10
59	Hopfield coefficients measured by inverse polariton series. Physical Review B, 2001, 63, .	3.2	11
60	Inverse exciton series in the optical decay of an excitonic molecule. Physical Review B, 1999, 59, R7837-R7840.	3.2	18