Naoto Tamai

List of Publications by Year in descending order

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Version: 2024-02-01

52 papers	2,390 citations	331670 21 h-index	197818 49 g-index
53 all docs	53 docs citations	53 times ranked	3615 citing authors

#	Article	IF	Citations
1	Ultrafast Dynamics of Photochromic Systems. Chemical Reviews, 2000, 100, 1875-1890.	47.7	793
2	Fluorescence Lifetime Standards for Time and Frequency Domain Fluorescence Spectroscopy. Analytical Chemistry, 2007, 79, 2137-2149.	6.5	397
3	Dynamics of photochromism in salicylideneaniline: A femtosecond spectroscopic study. Physical Chemistry Chemical Physics, 2003, 5, 4647.	2.8	119
4	Plasmonic pâ€“n Junction for Infrared Light to Chemical Energy Conversion. Journal of the American Chemical Society, 2019, 141, 2446-2450.	13.7	110
5	Effect of Surface Defects on Auger Recombination in Colloidal CdS Quantum Dots. Journal of Physical Chemistry Letters, 2011, 2, 1051-1055.	4.6	70
6	Solvent Viscosity Effects on Photochromic Reactions of a Diarylethene Derivative As Revealed by Picosecond Laser Spectroscopy. Journal of Physical Chemistry A, 2002, 106, 8096-8102.	2.5	60
7	Carrier Multiplication in CdTe Quantum Dots by Single-photon Timing Spectroscopy. Chemistry Letters, 2009, 38, 830-831.	1.3	52
8	Semiconductive Nature of Lead-Based Metalâ€“Organic Frameworks with Three-Dimensionally Extended Sulfur Secondary Building Units. Journal of the American Chemical Society, 2020, 142, 27-32.	13.7	51
9	Effects of Size and Capping Reagents on Biexciton Auger Recombination Dynamics of CdTe Quantum Dots. Journal of Physical Chemistry C, 2009, 113, 11783-11789.	3.1	47
10	Anomalous Photoinduced Hole Transport in Type I Core/Mesoporous-Shell Nanocrystals for Efficient Photocatalytic H₂ Evolution. ACS Nano, 2019, 13, 8356-8363.	14.6	44
11	Synthesis and Photophysical Properties of ï€-Conjugated Polymers Incorporated with Phosphorescent Rhenium(I) Chromophores in the Backbones. Journal of Physical Chemistry B, 2004, 108, 13185-13190.	2.6	42
12	A Wide-Bandgap Semiconducting Polymer for Ultraviolet and Blue Light Emitting Diodes. Macromolecular Chemistry and Physics, 2003, 204, 2274-2280.	2.2	37
13	Ultrafast dynamics and single particle spectroscopy of Auâ€“CdSe nanorods. Physical Chemistry Chemical Physics, 2013, 15, 2141.	2.8	37
14	Detailed Observation of Multiphoton Emission Enhancement from a Single Colloidal Quantum Dot Using a Silver-Coated AFM Tip. Nano Letters, 2016, 16, 5770-5778.	9.1	36
15	Different back electron transfer from titanium dioxide nanoparticles to tetra (4-sulfonatophenyl) porphyrin monomer and its J-aggregate. Chemical Physics Letters, 2001, 334, 257-264.	2.6	32
16	Durian-Shaped CdS@ZnSe Core@Mesoporous-Shell Nanoparticles for Enhanced and Sustainable Photocatalytic Hydrogen Evolution. Journal of Physical Chemistry Letters, 2018, 9, 2212-2217.	4.6	31
17	Quasi-Type II Carrier Distribution in CdSe/CdS Core/Shell Quantum Dots with Type I Band Alignment. Journal of Physical Chemistry C, 2018, 122, 12038-12046.	3.1	31
18	Dual Transient Bleaching of Au/PbS Hybrid Core/Shell Nanoparticles. Journal of Physical Chemistry Letters, 2012, 3, 1111-1116.	4.6	29

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19	Ultrafast spectroscopy and coherent acoustic phonons of Auâ€“Ag coreâ€“shell nanorods. Journal of Chemical Physics, 2011, 134, 054501.	3.0	26
20	Effect of Dipole Coupling on Near-IR LSPR and Coherent Phonon Vibration of Periodic Gold Pair Nanocuboids. Journal of Physical Chemistry C, 2012, 116, 17838-17846.	3.1	24
21	Size-Dependent Multiexciton Spectroscopy and Moderate Temperature Dependence of Biexciton Auger Recombination in Colloidal CdTe Quantum Dots. Journal of Physical Chemistry C, 2010, 114, 17550-17556.	3.1	23
22	Ultrafast and Hot Electron Transfer in CdSe QDâ€“Au Hybrid Nanostructures. Journal of Physical Chemistry C, 2020, 124, 1099-1107.	3.1	22
23	Face-Dependent Electron Transfer in CdSe Nanoplateletâ€“Methyl Viologen Complexes. Journal of Physical Chemistry C, 2016, 120, 17052-17059.	3.1	21
24	Charge Transfer Dynamics and Auger Recombination of CdTe/CdS Core/Shell Quantum Dots. Journal of Physical Chemistry C, 2015, 119, 17971-17978.	3.1	20
25	Multiple pathways of excitation energy flow in the photosynthetic pigment system of a cryptophyte, Cryptomonas sp. (CR-1)*. Phycological Research, 1998, 46, 155-164.	1.6	19
26	Near-IR vibrational dynamics of periodic gold single and pair nanocuboids. Applied Physics Letters, 2009, 95, 053116.	3.3	19
27	Ultrafast Carrier Transfer and Hot Carrier Dynamics in PbSâ€“Au Hybrid Nanostructures. Journal of Physical Chemistry C, 2015, 119, 2113-2120.	3.1	19
28	Coherent Acoustic Phonon Dynamics of Gold Nanorods and Nanospheres in a Poly(vinyl alcohol) Matrix and Their Temperature Dependence by Transient Absorption Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 1674-1681.	3.1	18
29	Rod-shaped Znâ€“Agâ€“Inâ€“Te nanocrystals with wavelength-tunable band-edge photoluminescence in the near-IR region. Journal of Materials Chemistry C, 2018, 6, 2034-2042.	5.5	17
30	Multiphoton Emission Enhancement from a Single Colloidal Quantum Dot Using SiO₂-Coated Silver Nanoparticles. ACS Omega, 2017, 2, 728-737.	3.5	16
31	Unraveling the Ultrafast Exciton Relaxation and Hidden Energy State in CH₃NH₃PbBr₃ Nanoparticles. Journal of Physical Chemistry C, 2018, 122, 5209-5214.	3.1	15
32	Solvation Dynamics of the Excited 1,2-(p-Cyano-pâ€˜-Methoxydiphenyl)-Ethyneâ€. Journal of Physical Chemistry A, 2002, 106, 2164-2172.	2.5	14
33	Stepwise Two-Photon-Induced Electron Transfer from Higher Excited States of Noncovalently Bound Porphyrin-CdS/ZnS Core/Shell Nanocrystals. Journal of Physical Chemistry Letters, 2018, 9, 7098-7104.	4.6	12
34	Self-Associating Curved Ï€-Electronic Systems with Electron-Donating and Hydrogen-Bonding Properties. Journal of the American Chemical Society, 2020, 142, 16420-16428.	13.7	12
35	Time-resolved Study on Unconventional Fluorescence of an Azobenzene Liquid Crystal and its Phase Transition. Molecular Crystals and Liquid Crystals, 1998, 314, 83-88.	0.3	11
36	Electron and Phonon Dynamics in Hexagonal Pd Nanosheets and Ag/Pd/Ag Sandwich Nanoplates. ACS Nano, 2017, 11, 1180-1188.	14.6	11

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37	Photophysical properties of fluoreneâ€based copolymers synthesized by connecting twisted biphenyl units with fluorene via paraâ€and metaâ€linkages. Polymer International, 2008, 57, 987-994.	3.1	7
38	Plasmon coupling and coherent acoustic phonon dynamics of periodic gold pair nanocuboids by near-IR transient absorption spectroscopy. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 221, 164-168.	3.9	7
39	Charge transfer dynamics in chlorophyll-based biosolar cells. Physical Chemistry Chemical Physics, 2019, 21, 22563-22568.	2.8	6
40	Hot electron transfer in Znâ€“Agâ€“Inâ€“Te nanocrystalâ€“methyl viologen complexes enhanced with higher-energy photon excitation. RSC Advances, 2020, 10, 16361-16365.	3.6	6
41	Enhanced Photoelectrochemical Properties of Znâ^'Agâ^'Inâ^'Te Nanocrystals with High Energy Photon Excitation. ChemNanoMat, 2019, 5, 1028-1035.	2.8	5
42	Excited-State Dynamics and Thermally Activated Delayed Fluorescence in the Classic Electron Acceptor Tetracyanoquinodimethane. Journal of Physical Chemistry B, 2020, 124, 7918-7928.	2.6	5
43	Morphology-Dependent Coherent Acoustic Phonon Vibrations and Phonon Beat of Au Nanopolyhedrons. ACS Omega, 2021, 6, 5485-5489.	3.5	5
44	Solidâ€Solution Coordination Polymers as Precursors for Zn_xCd_{1â€“x}S/C Composite Nanowires. European Journal of Inorganic Chemistry, 2017, 2017, 2444-2449.	2.0	5
45	Energy Transfer Dynamics of CdTe Quantum Dots on Epitaxial Graphene Prepared by Si Sublimation of 4H-SiC(0001). Chemistry Letters, 2014, 43, 125-127.	1.3	2
46	Exciton Population Dynamics of Ethoxy-terminated Silicon Quantum Dots: Femtosecond Near-IR Transient Absorption Spectroscopic Study. Chemistry Letters, 2015, 44, 88-90.	1.3	2
47	Femtosecond Transient Absorption Microspectroscopy of Benzil Confined Into a Single Bead of Porous Glass. Laser Chemistry, 1996, 16, 197-206.	0.5	1
48	Kinetically and Thermodynamically Controlled Nanostructures of Perylene-Substituted Lophine Derivatives. Journal of Physical Chemistry C, 2019, 123, 10145-10152.	3.1	1
49	Charge-Transfer Mechanism in Chlorophyll Derivative-based Biosolar Cells with Hole-Transporting P3HT Revealed by Sub-Picosecond Transient Absorption Spectroscopy. Journal of Physical Chemistry C, 2020, 124, 27900-27906.	3.1	1
50	Solvation Dynamics of Excited p-Methoxy-p'-cyanodiphenyl- acetylene in n-Butanol. Simultaneous Analysis of Time-Resolved Fluorescence Anisotropy and Stokes Shift. Molecular Crystals and Liquid Crystals, 1998, 314, 131-136.	0.3	0
51	Unconventional Laser Chemistry. Laser-Induced Optical Switching in the Interface Layer.. The Review of Laser Engineering, 1996, 24, 757-764.	0.0	0
52	Hot Carrier Transfer and Carrier Manipulation of Semiconductor Nanocrystals. , 2020, , 171-196.		0