

# Mitsuru Sugisaki

## List of Publications by Year in descending order

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65  
papers

1,136  
citations

361413

20  
h-index

434195

31  
g-index

68  
all docs

68  
docs citations

68  
times ranked

1037  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical anisotropy in self-assembled InP quantum dots. <i>Physical Review B</i> , 1999, 59, R5300-R5303.	3.2	79
2	Fluorescence Intermittency in Self-Assembled InP Quantum Dots. <i>Physical Review Letters</i> , 2001, 86, 4883-4886.	7.8	70
3	One- and two-photon pump-probe optical spectroscopic measurements reveal the S1 and intramolecular charge transfer states are distinct in fucoxanthin. <i>Chemical Physics Letters</i> , 2009, 483, 95-100.	2.6	59
4	External-field effects on the optical spectra of self-assembled InP quantum dots. <i>Physical Review B</i> , 2002, 66, .	3.2	58
5	Unified explanation for linear and nonlinear optical responses in $\beta$ -carotene: A sub-20-fs degenerate four-wave mixing spectroscopic study. <i>Physical Review B</i> , 2007, 75, .	3.2	57
6	Second Order Nonlinear Optical Properties of the Single Crystal of N-Benzyl 2-methyl-4-nitroaniline: Anomalous Enhancement of the $\chi^{(3)}$ Component and Its Possible Origin. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 8676-8685.	1.5	41
7	Ultrafast excited state dynamics of fucoxanthin: excitation energy dependent intramolecular charge transfer dynamics. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 10762.	2.8	39
8	Determination of the Tensor Components of a Single Crystal of N-Benzyl-2-methyl-4-nitroaniline. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 1528-1530.	1.5	36
9	Energy dissipation in the ground-state vibrational manifolds of $\beta$ -carotene homologues: A sub-20-fs time-resolved transient grating spectroscopic study. <i>Physical Review B</i> , 2008, 77, .	3.2	31
10	Elucidation and Control of an Intramolecular Charge Transfer Property of Fucoxanthin by a Modification of Its Polyene Chain Length. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 792-797.	4.6	30
11	Photoprotection Mechanism of Light-Harvesting Antenna Complex from Purple Bacteria. <i>Journal of Physical Chemistry B</i> , 2016, 120, 951-956.	2.6	29
12	Lateral Composition Modulation Induced Optical Anisotropy in InP/GaN Quantum Dot System. <i>Japanese Journal of Applied Physics</i> , 1999, 38, 2438-2441.	1.5	28
13	Ultrafast Energy Transfer Pathway in a Purple Bacterial Photosynthetic Core Antenna, as Revealed by Femtosecond Time-Resolved Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1097-1100.	13.8	28
14	Ultrafast S1 and ICT state dynamics of a marine carotenoid probed by femtosecond one- and two-photon pump-probe spectroscopy. <i>Journal of Luminescence</i> , 2011, 131, 515-518.	3.1	27
15	Ultrafast excited state dynamics of spirilloxanthin in solution and bound to core antenna complexes: Identification of the S* and T1 states. <i>Journal of Chemical Physics</i> , 2012, 137, 064505.	3.0	26
16	Time-resolved luminescence of InP quantum dots in a Ga <sub>0.5</sub> In <sub>0.5</sub> P matrix: Carrier injection from the matrix. <i>Physical Review B</i> , 1998, 57, 1386-1389.	3.2	24
17	Imaging and single dot spectroscopy of InP self-assembled quantum dots. <i>Journal of Luminescence</i> , 2000, 87-89, 40-45.	3.1	24
18	Excitation-energy dependence of transient grating spectroscopy in $\beta$ -carotene. <i>Physical Review B</i> , 2009, 80, .	3.2	22

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19	Ultrafast time-resolved vibrational spectroscopies of carotenoids in photosynthesis. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015, 1847, 69-78.	1.0	22
20	Comparison of transient grating signals from spheroidene in an organic solvent and in pigment-protein complexes from <i>Rhodobacter sphaeroides</i> . <i>Physical Review B</i> , 2010, 81, .	3.2	21
21	Four-wave mixing signals from $\beta$ -carotene and its n=15 homologue. <i>Photosynthesis Research</i> , 2008, 95, 299-308.	2.9	20
22	Morphology-Dependent Carrier and Exciton Generations in Regioregular Poly(3-hexylthiophene) Polymer Diodes as Revealed by Bleaching Spectroscopy. <i>Physical Review Letters</i> , 2009, 103, 187402.	7.8	20
23	Characterization of the intramolecular transfer state of marine carotenoid fucoxanthin by femtosecond pump-probe spectroscopy. <i>Photosynthesis Research</i> , 2014, 121, 61-68.	2.9	19
24	Intersystem Conversion between Singlet and Triplet Exciton States in ZnP2. <i>Journal of the Physical Society of Japan</i> , 1996, 65, 23-26.	1.6	18
25	Excitons at a single localized center induced by a natural composition modulation in bulkGa0.5In0.5P. <i>Physical Review B</i> , 2000, 61, 16040-16044.	3.2	18
26	Magnetic field effects in InP self-assembled quantum dots. <i>Physica B: Condensed Matter</i> , 1998, 256-258, 169-172.	2.7	16
27	Optical Properties of InP Self-Assembled Quantum Dots Studied by Imaging and Single Dot Spectroscopy. <i>Japanese Journal of Applied Physics</i> , 2002, 41, 958-966.	1.5	16
28	Control of InAs Self-Assembled Islands on GaAs Vicinal Surfaces by Annealing in Gas-Source Molecular Beam Epitaxy. <i>Japanese Journal of Applied Physics</i> , 1997, 36, 4118-4122.	1.5	15
29	Spontaneous one-dimensional lateral alignment of multistacked InGaAs quantum dots on GaAs (111)B substrates. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000, 7, 303-307.	2.7	15
30	Intrachain Photoluminescence Dynamics of MEH-PPV in the Solid State. <i>Journal of Physical Chemistry B</i> , 2007, 111, 12389-12394.	2.6	15
31	Construction of hybrid photosynthetic units using peripheral and core antennae from two different species of photosynthetic bacteria: detection of the energy transfer from bacteriochlorophyll a in LH2 to bacteriochlorophyll b in LH1. <i>Photosynthesis Research</i> , 2008, 95, 327-337.	2.9	14
32	Ultrafast excited state dynamics of monomeric bacteriochlorophyll a. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 92-95.	0.8	14
33	Ultrafast intramolecular relaxation dynamics of Mg- and Zn-bacteriochlorophyll a. <i>Journal of Chemical Physics</i> , 2013, 139, 034311.	3.0	14
34	Emission from the Higher Members of Exciton (n=2, 3 and 4) in $\beta$ -ZnP2. <i>Journal of the Physical Society of Japan</i> , 1995, 64, 3506-3513.	1.6	14
35	Spontaneous lateral alignment of multistacked In0.45Ga0.55As quantum dots on GaAs(111)B substrate. <i>Journal of Crystal Growth</i> , 1999, 200, 77-84.	1.5	13
36	Roles of allene-group in an intramolecular charge transfer character of a short fucoxanthin homolog as revealed by femtosecond pump-probe spectroscopy. <i>Chemical Physics Letters</i> , 2014, 602, 75-79.	2.6	13

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37	Highly Uniform and Small InP/GaN Self-Assembled Quantum Dots Grown by Metal-Organic Vapor Phase Epitaxy. Japanese Journal of Applied Physics, 1999, 38, 507-510.	1.5	12
38	Resonant Secondary Emission and Its Excitation Energy Dependence in Monoclinic Zinc Diphosphide. Journal of the Physical Society of Japan, 1994, 63, 4249-4255.	1.6	11
39	Temperature effects on quasi-isolated conjugated polymers as revealed by temperature-dependent optical spectra of 16-mer oligothiophene diluted in a solid matrix. Journal of Chemical Physics, 2009, 130, 234909.	3.0	11
40	Ultrafast coherent spectroscopic investigation on photosynthetic pigment chlorophyll a utilizing 20 fs pulses. Journal of Photochemistry and Photobiology A: Chemistry, 2015, 313, 72-78.	3.9	10
41	The dependence of excitation energy transfer pathways on conjugation length of carotenoids in purple bacterial photosynthetic antennae. Physica Status Solidi (B): Basic Research, 2011, 248, 403-407.	1.5	9
42	Linear and nonlinear optical responses in bacteriochlorophyll a. Photosynthesis Research, 2008, 95, 309-316.	2.9	8
43	Infrared Lattice Vibration Spectra at Low Temperature in $\hat{\Gamma}^2$ -ZnP2. Journal of the Physical Society of Japan, 1993, 62, 4533-4534.	1.6	7
44	Photoluminescence and micro-imaging study of optically anisotropic InP self-assembled quantum dots. Solid State Communications, 2001, 117, 679-684.	1.9	7
45	Large third-order optical nonlinearity realized in symmetric nonpolar carotenoids. Physical Review B, 2008, 78, .	3.2	7
46	Generation of coherently coupled vibronic oscillations in carotenoids. Physical Review B, 2012, 85, .	3.2	7
47	Magnetic field effects on luminescence and excitation spectra in $\hat{\Gamma}^2$ -ZnP2. Journal of Luminescence, 1997, 72-74, 85-86.	3.1	5
48	Temperature Dependence of Luminescence Decay Time of InP Quantum Disks. Japanese Journal of Applied Physics, 1999, 38, 1094-1097.	1.5	5
49	Transient grating spectroscopy in photosynthetic purple bacteria Rhodospirillum rubrum 2.4.1. Journal of Luminescence, 2009, 129, 1908-1911.	3.1	5
50	How do surrounding environments influence the electronic and vibrational properties of spheroidene?. Photosynthesis Research, 2015, 124, 77-86.	2.9	5
51	Ultrafast coherent vibronic oscillations in regioregular poly(3-alkylthiophene). Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, S46-S49.	0.8	4
52	Strong coherent coupling of vibronic oscillations in spheroidene. Physics Procedia, 2011, 13, 74-77.	1.2	3
53	Time-resolved luminescence study of InP quantum dots in GaInP matrix. Solid-State Electronics, 1998, 42, 1319-1323.	1.4	2
54	Resonant Brillouin Scattering of Exciton-Polaritons in $\hat{\Gamma}^2$ -ZnP2. Journal of the Physical Society of Japan, 2001, 70, 3134-3142.	1.6	2

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55	Anisotropic optical response of InP self-assembled quantum dots studied by pump-probe spectroscopy. Physical Review B, 2007, 75, .	3.2	2
56	Third-order optical nonlinearity of $\beta$ -carotene homologues. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, S31.	0.8	2
57	Morphology dependent exciton formation in regioregular poly(3-alkyl)thiophenes. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 88-91.	0.8	2
58	Intrachain photoluminescence dynamics of a long oligothiophene at room temperature. Journal of Luminescence, 2009, 129, 1845-1848.	3.1	1
59	Anti-Stokes fluorescence from chlorophyll a. Journal of Physics: Conference Series, 2019, 1220, 012043.	0.4	1
60	<title>Resonant secondary emission in beta-ZnP2</title>. , 1995, , .		0
61	<title>Exciton luminescence in beta-ZnP2: 2s and 3s</title>. , 1995, , .		0
62	Transient grating spectroscopy of $\beta$ -carotene pumped with spectrally chirped pulses. Journal of Physics: Conference Series, 2019, 1220, 012045.	0.4	0
63	Micro-Imaging and Single Dot Spectroscopy of Self-Assembled Quantum Dots. Nanoscience and Technology, 2002, , 149-208.	1.5	0
64	Coherent Spectroscopy of Carotenoid and Bacteriochlorophyll. , 2008, , 265-268.		0
65	Strongly Coupled Vibronic Modes Investigated by Means of Four-wave Mixing Spectroscopy. , 2010, , .		0