

Hiroshi Masuhara

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564
papers

13,473
citations

54
h-index

81
g-index

590
ext. papers

14,359
ext. citations

4.1
avg, IF

6.14
L-index

#	Paper	IF	Citations
564	Charge Carrier Dynamics of Standard TiO ₂ Catalysts Revealed by Femtosecond Diffuse Reflectance Spectroscopy. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 3120-3127	3.4	238
563	Pattern formation and flow control of fine particles by laser-scanning micromanipulation. <i>Optics Letters</i> , 1991 , 16, 1463-5	3	226
562	Design, Synthesis, Structural and Nonlinear Optical Properties of Photochromic Crystals: Toward Reversible Molecular Switches. <i>Chemistry of Materials</i> , 2005 , 17, 4727-4735	9.6	207
561	Three-dimensional optical trapping and laser ablation of a single polymer latex particle in water. <i>Journal of Applied Physics</i> , 1991 , 70, 3829-3836	2.5	177
560	Optical trapping of a metal particle and a water droplet by a scanning laser beam. <i>Applied Physics Letters</i> , 1992 , 60, 807-809	3.4	172
559	Laser fabrication and spectroscopy of organic nanoparticles. <i>Accounts of Chemical Research</i> , 2008 , 41, 1790-8	24.3	167
558	Ionic photodissociation of electron donor-acceptor systems in solution. <i>Accounts of Chemical Research</i> , 1981 , 14, 312-318	24.3	158
557	Direct observation of a picosecond charge separation process in photoexcited platinum-loaded TiO ₂ particles by femtosecond diffuse reflectance spectroscopy. <i>Chemical Physics Letters</i> , 2001 , 336, 424-430	2.5	148
556	Nanoparticle Formation of Vanadyl Phthalocyanine by Laser Ablation of Its Crystalline Powder in a Poor Solvent. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 2135-2139	2.8	133
555	Size-dependent spectroscopic properties and thermochromic behavior in poly(substituted thiophene) nanoparticles. <i>ChemPhysChem</i> , 2004 , 5, 1609-15	3.2	125
554	Crystallization of Glycine by Photon Pressure of a Focused CW Laser Beam. <i>Chemistry Letters</i> , 2007 , 36, 1480-1481	1.7	122
553	Multibeam laser manipulation and fixation of microparticles. <i>Applied Physics Letters</i> , 1992 , 60, 310-312	3.4	114
552	Laser Irradiated Growth of Protein Crystal. <i>Japanese Journal of Applied Physics</i> , 2003 , 42, L798-L800	1.4	112
551	The mechanism of dopant-induced laser ablation. Possibility of cyclic multiphotonic absorption in excited states. <i>Chemical Physics Letters</i> , 1994 , 221, 373-378	2.5	108
550	Scanning Tunneling Microscope Tip-Induced Anodization for Nanofabrication of Titanium. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 4352-4357		105
549	Tip-induced anodization of titanium surfaces by scanning tunneling microscopy: A humidity effect on nanolithography. <i>Applied Physics Letters</i> , 1993 , 63, 1288-1290	3.4	104
548	Fluorescence quenching mechanism of aromatic hydrocarbons by closed-shell heavy metal ions in aqueous and organic solutions. <i>The Journal of Physical Chemistry</i> , 1984 , 88, 5868-5873		99

547	Laser trapping chemistry: from polymer assembly to amino acid crystallization. <i>Accounts of Chemical Research</i> , 2012 , 45, 1946-54	24.3	98
546	Ionic photodissociation of excited electron donor-acceptor systems. I. Empirical equation on the relation between the yield and the solvent dielectric constant. <i>The Journal of Physical Chemistry</i> , 1975 , 79, 994-1000		98
545	Molecular Assembling by the Radiation Pressure of a Focused Laser Beam: Poly(N-isopropylacrylamide) in Aqueous Solution. <i>Langmuir</i> , 1997 , 13, 414-419	4	96
544	Configurational and conformational aspects in the excimer formation of bis(carbazoles). <i>Journal of the American Chemical Society</i> , 1984 , 106, 8057-8064	16.4	93
543	Femtosecond transient absorption spectroscopy of a spirooxazine photochromic reaction. <i>Chemical Physics Letters</i> , 1992 , 191, 189-194	2.5	91
542	Picosecond Absorption Spectra and Relaxation Processes of the Excited Singlet State of Pyrene in Solution. <i>Laser Chemistry</i> , 1983 , 1, 357-386		89
541	Laser manipulation and fixation of single gold nanoparticles in solution at room temperature. <i>Applied Physics Letters</i> , 2002 , 80, 482-484	3.4	86
540	Laser photolysis studies on quenching processes of triplet benzophenone by amines in fluid solution. <i>The Journal of Physical Chemistry</i> , 1975 , 79, 1255-1259		85
539	Single Particle Spectroscopic Investigation on the Interaction between Exciton Transition of Cyanine Dye J-Aggregates and Localized Surface Plasmon Polarization of Gold Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 1549-1552	3.8	84
538	Laser-Scanning Micromanipulation and Spatial Patterning of Fine Particles. <i>Japanese Journal of Applied Physics</i> , 1991 , 30, L907-L909	1.4	83
537	Single molecule spectroscopy of organic dye nanoparticles. <i>Nano Letters</i> , 2005 , 5, 1321-5	11.5	80
536	Primary photoreaction of photoactive yellow protein studied by subpicosecond-nanosecond spectroscopy. <i>Biochemistry</i> , 2001 , 40, 6047-52	3.2	77
535	Absorption spectra and dynamics of some excited and ionic dicarbazolyl compounds with specific geometrical structures. <i>Journal of the American Chemical Society</i> , 1983 , 105, 7256-7262	16.4	77
534	Femtosecond light scattering spectroscopy of single gold nanoparticles. <i>Applied Physics Letters</i> , 2001 , 79, 1667-1669	3.4	76
533	Radiative Depopulation of the Excited Intramolecular Charge-Transfer State of 9-(4-(N,N-Dimethylamino)phenyl)phenanthrene. <i>Journal of the American Chemical Society</i> , 1996 , 118, 2892-2902	16.4	76
532	Hot Electron Relaxation Dynamics of Gold Nanoparticles Embedded in MgSO ₄ Powder Compared To Solution: The Effect of the Surrounding Medium. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 945-955	3.4	74
531	Size-Dependent Optical Properties of Polydiacetylene Nanocrystal. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 7674-7680	3.4	72
530	In situ measurements of ion-exchange processes in single polymer particles: laser trapping microspectroscopy and confocal fluorescence microspectroscopy. <i>Analytical Chemistry</i> , 1996 , 68, 409-14	7.8	72

529	Ultrafast Photo-Dynamics of a Reversible Photochromic Spiropyran <i>Journal of Physical Chemistry A</i> , 2002 , 106, 2265-2270	2.8	71
528	Nanofabrication of Titanium Surface by Tip-Induced Anodization in Scanning Tunneling Microscopy. <i>Japanese Journal of Applied Physics</i> , 1993 , 32, L553-L555	1.4	71
527	Fluorescence Spectroscopic Studies of Anthracene Adsorbed into Zeolites: From the Detection of Cation-Interaction to the Observation of Dimers and Crystals. <i>Langmuir</i> , 1998 , 14, 4284-4291	4	69
526	Tailoring nanoparticles of aromatic and dye molecules by excimer laser irradiation. <i>Applied Surface Science</i> , 2000 , 168, 85-88	6.7	67
525	Synthesis of Sn-Porphyrin-Intercalated Trititanate Nanofibers: Optoelectronic Properties and Photocatalytic Activities. <i>Chemistry of Materials</i> , 2007 , 19, 1984-1991	9.6	65
524	Development of a femtosecond diffuse reflectance spectroscopic system, evaluation of its temporal resolution, and applications to organic powder systems. <i>Review of Scientific Instruments</i> , 1998 , 69, 361-371	1.7	65
523	Cluster formation of nanoparticles in an optical trap studied by fluorescence correlation spectroscopy. <i>Physical Review E</i> , 2005 , 72, 021408	2.4	63
522	Time-Dependent Fluorescence Depolarization Analysis in Three-Dimensional Microspectroscopy. <i>Applied Spectroscopy</i> , 1995 , 49, 224-228	3.1	60
521	The 248 nm Excimer Laser Ablation of Liquid Benzene Derivatives: A Relation between Ablation Threshold and Molecular Photochemical Reactivity. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 11237-11241		60
520	Dynamic Behaviors of the Electron Donor-Acceptor Complex in its Lowest Excited Singlet State. <i>Bulletin of the Chemical Society of Japan</i> , 1971 , 44, 3310-3316	5.1	60
519	Comparative Investigation of Ultrafast Photoinduced Processes in Salicylidene-Aminopyridine in Solution and Solid State. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 11959-11968	3.8	59
518	Mass spectrometric studies on laser ablation of polystyrene sensitized with anthracene. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 13761-13766		59
517	Crystallization in Unsaturated Glycine/D2O Solution Achieved by Irradiating a Focused Continuous Wave Near Infrared Laser. <i>Crystal Growth and Design</i> , 2010 , 10, 4686-4688	3.5	57
516	Optical patterning and photochemical fixation of polymer nanoparticles on glass substrates. <i>Applied Physics Letters</i> , 2001 , 78, 2566-2568	3.4	57
515	Three-Dimensional pH Microprobing with an Optically-Manipulated Fluorescent Particle. <i>Chemistry Letters</i> , 1996 , 25, 141-142	1.7	57
514	Nondestructive isolation of single cultured animal cells by femtosecond laser-induced shockwave. <i>Applied Physics A: Materials Science and Processing</i> , 2004 , 79, 795-798	2.6	56
513	Photothermal conversion dynamics in femtosecond and picosecond discrete laser etching of Cu-phthalocyanine amorphous film analysed by ultrafast UV-VIS absorption spectroscopy. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2001 , 142, 197-207	4.7	55
512	Laser manipulation and ablation of a single microcapsule in water. <i>Journal of the American Chemical Society</i> , 1991 , 113, 7859-7863	16.4	55

511	Cooperative Photochemical Reaction in Molecular Crystal Induced by Intense Femtosecond Laser Excitation: Photochromism of Spiro-naphthooxazine. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 2335-2340	2.8	54
510	Iridium oxide-based microelectrochemical transistors for pH sensing. <i>Sensors and Actuators B: Chemical</i> , 1993 , 12, 225-230	8.5	54
509	Three-dimensional potential analysis of radiation pressure exerted on a single microparticle. <i>Applied Physics Letters</i> , 1997 , 71, 37-39	3.4	53
508	Infrared Laser-Induced Photo-Thermal Phase Transition of an Aqueous Poly(N-isopropylacrylamide) Solution in the Micrometer Dimension. <i>Bulletin of the Chemical Society of Japan</i> , 1996 , 69, 59-66	5.1	53
507	Time-dependent fluorescence spectral shift and unusual slow decay of exciplex in poly(N-vinylcarbazole) films. <i>The Journal of Physical Chemistry</i> , 1989 , 93, 5351-5353		53
506	Femtosecond Laser-Induced Crystallization of 4-(Dimethylamino)-N-methyl-4-stilbazolium Tosylate. <i>Crystal Growth and Design</i> , 2005 , 5, 861-863	3.5	52
505	Laser ablation of pyrene-doped poly(methyl methacrylate) film: Dynamics of pyrene transient species by spectroscopic measurements. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 11844-11853		52
504	Glycine crystallization in solution by CW laser-induced microbubble on gold thin film surface. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 1158-63	9.5	51
503	Photoinduced Intramolecular Charge Transfer in Diphenylamino-Substituted Triphenylbenzene, Biphenyl, and Fluorene. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 8157-8165	2.8	51
502	Photochromic reactions of crystalline spiropyran and spirooxazines induced by intense femtosecond laser excitation. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 185-192	3.6	51
501	A Single Droplet Formation from Swelled Micelles by Radiation Pressure of a Focused Infrared Laser Beam. <i>Journal of the American Chemical Society</i> , 1996 , 118, 11968-11969	16.4	51
500	Molecular Association by the Radiation Pressure of a Focused Laser Beam: Fluorescence Characterization of Pyrene-Labeled PNIPAM. <i>Journal of the American Chemical Society</i> , 1997 , 119, 2741-2742	16.4	50
499	Hyper-Rayleigh scattering and hyper-Raman scattering of dye-adsorbed silver nanoparticles induced by a focused continuous-wave near-infrared laser. <i>Applied Physics Letters</i> , 2006 , 88, 084102	3.4	50
498	Reversible assembly of gold nanoparticles confined in an optical microcage. <i>Physical Review E</i> , 2004 , 70, 061406	2.4	50
497	Photothermal Transient Expansion and Contraction Dynamics of Polymer Films by Nanosecond Interferometry. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 6871-6875		50
496	Intersystem crossing of benzophenone by femtosecond transient grating spectroscopy. <i>Chemical Physics Letters</i> , 1992 , 198, 413-418	2.5	50
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494	Control of Crystal Polymorph of Glycine by Photon Pressure of a Focused Continuous Wave Near-Infrared Laser Beam. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 599-603	6.4	49

493	Direct observation of interfacial hole transfer from a photoexcited TiO ₂ particle to an adsorbed molecule SCN ⁻ by femtosecond diffuse reflectance spectroscopy. <i>Research on Chemical Intermediates</i> , 2001 , 27, 177-187	2.8	49
492	Laser Implantation of Pyrene Molecules into Poly(methyl methacrylate) Films. <i>Journal of the American Chemical Society</i> , 1994 , 116, 10304-10305	16.4	49
491	Dopant-induced ablation of poly(methyl methacrylate) by a 308-nm excimer laser. <i>Macromolecules</i> , 1987 , 20, 450-452	5.5	49
490	Blinking photoluminescence properties of single TiO ₂ nanodiscs: interfacial electron transfer dynamics. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 534-42	3.6	48
489	Laser-Induced Decomposition and Ablation Dynamics Studied by Nanosecond Interferometry. 1. A Triazenopolymer Film. <i>Journal of Physical Chemistry A</i> , 1997 , 101, 5742-5747	2.8	48
488	Direct measurement of picosecond interfacial electron transfer from photoexcited TiO ₂ powder to an adsorbed molecule in the opaque suspension. <i>Chemical Physics Letters</i> , 1997 , 275, 234-238	2.5	48
487	Spectral and 3-Dimensional Tracking of Single Gold Nanoparticles in Living Cells Studied by Rayleigh Light Scattering Microscopy. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 11766-11772	3.8	47
486	Picosecond time-resolved fluorescence spectra of a liquid crystal: Fluorescence behavior related to phase transitions in cyanooctyloxybiphenyl. <i>Chemical Physics Letters</i> , 1984 , 104, 485-488	2.5	47
485	Anthracene Crystallization Induced by Single-Shot Femtosecond Laser Irradiation: Experimental Evidence for the Important Role of Bubbles. <i>Crystal Growth and Design</i> , 2007 , 7, 885-889	3.5	46
484	Organic nonlinear optical DAST crystals for electro-optic measurement and terahertz wave generation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006 , 183, 247-252	4.7	46
483	Repetitive Contraction and Swelling Behavior of Gel-like Wire-type Dendrimer Assemblies in Solution Layer by Photon Pressure of a Focused Near-infrared Laser Beam. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 905-909	3.4	46
482	Electronic structure and dynamical behavior of some intramolecular exciplexes. <i>Journal of Luminescence</i> , 1976 , 12-13, 159-168	3.8	46
481	Optical Trapping-Formed Colloidal Assembly with Horns Extended to the Outside of a Focus through Light Propagation. <i>Nano Letters</i> , 2016 , 16, 3058-62	11.5	46
480	Selective Fabrication of α - and β -Polymorphs of Glycine by Intense Polarized Continuous Wave Laser Beams. <i>Crystal Growth and Design</i> , 2012 , 12, 2427-2434	3.5	44
479	Immobilization of diverse foreign proteins in viral polyhedra and potential application for protein microarrays. <i>Proteomics</i> , 2006 , 6, 54-66	4.8	44
478	Photothermal fixation of laser-trapped polymer microparticles on polymer substrates. <i>Applied Physics Letters</i> , 1999 , 75, 1506-1508	3.4	44
477	Photon Pressure-Induced Association of Nanometer-Sized Polymer Chains in Solution. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 1660-1663	3.4	44
476	Time-resolved spectroscopic and photographic studies on laser ablation of poly(methyl methacrylate) film doped with biphenyl. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 750-757		44

475	Fluorescence spectra and excited singlet-singlet absorption spectra of s-tetracyanobenzene EDA complexes by laser excitation. <i>Chemical Physics Letters</i> , 1970 , 6, 608-610	2.5	44
474	Nanosecond time-resolved interferometric study on morphological dynamics of doped poly(methyl methacrylate) film upon laser ablation. <i>Applied Physics Letters</i> , 1994 , 65, 3413-3415	3.4	43
473	Each dopant can absorb more than ten photons: Transient absorbance measurement at excitation laser wavelength in polymer ablation. <i>Applied Physics Letters</i> , 1994 , 64, 2451-2453	3.4	43
472	Ionic photodissociation of excited electron donor-acceptor systems. II. Importance of the chemical property of donor-acceptor pairs. <i>The Journal of Physical Chemistry</i> , 1976 , 80, 33-37		43
471	Millimeter-Scale Dense Liquid Droplet Formation and Crystallization in Glycine Solution Induced by Photon Pressure. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 1321-1325	6.4	41
470	Fabrication of Gold Nanoparticle-Doped Zeolite L Crystals and Characterization by Optical Microscopy: Laser Ablation- and Crystallization Inclusion-Based Approach. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 15089-15093	3.8	41
469	Diffuse reflectance laser photolytic studies of naphthalene, biphenyl and some aromatic hydrocarbons adsorbed in the cavities of faujasitic zeolites. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996 , 92, 3653		41
468	Laser ablation for protein crystal nucleation and seeding. <i>Chemical Society Reviews</i> , 2014 , 43, 2147-58	58.5	40
467	Nondestructive micropatterning of living animal cells using focused femtosecond laser-induced impulsive force. <i>Applied Physics Letters</i> , 2007 , 91, 023904	3.4	40
466	Picosecond ultraviolet multiphoton laser photolysis and transient absorption spectroscopy of liquid benzenes. <i>The Journal of Physical Chemistry</i> , 1985 , 89, 1631-1636		40
465	Laser photochemistry of poly(N-vinylcarbazole) in solution. <i>The Journal of Physical Chemistry</i> , 1980 , 84, 2363-2368		40
464	Chemical and Optical Mechanism of Microparticle Formation of Poly(N-vinylcarbazole) in N,N-Dimethylformamide by Photon Pressure of a Focused Near-Infrared Laser Beam. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 1896-1901	3.4	39
463	Fluorescence dynamics of poly(N-vinylcarbazole) in solution as revealed by multicomponent analysis of picosecond time-resolved fluorescence spectra: dependence on tacticity and molecular weight. <i>Polymer</i> , 1996 , 37, 31-43	3.9	39
462	Poly(N-isopropylacrylamide) Microparticle Formation in Water by Infrared Laser-Induced Photo-Thermal Phase Transition. <i>Chemistry Letters</i> , 1993 , 22, 481-484	1.7	38
461	Ultrafast Decay Dynamics of Excited and Charged States in Hexithienyl Film As Revealed by Femtosecond Transient Absorption and Picosecond Fluorescence Spectroscopy. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 1510-1519	3.4	37
460	Size and Phase Control in Quinacridone Nanoparticle Formation by Laser Ablation in Water. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 384-388	1.4	37
459	Optical assembling dynamics of individual polymer nanospheres investigated by single-particle fluorescence detection. <i>Physical Review E</i> , 2004 , 70, 061410	2.4	37
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- 455 Assembling and orientation of polyfluorenes in solution controlled by a focused near-infrared laser beam. *Journal of Physical Chemistry B*, **2005**, 109, 6917-21 3.4 36
- 454 Two-photon fluorescence spectroscopy of individually trapped pseudoisocyanine J-aggregates in aqueous solution. *Journal of Physical Chemistry B*, **2006**, 110, 17906-11 3.4 36
- 453 Laser Ablation Dynamics of a Poly(methyl methacrylate) Film Doped with 5-Diazo Meldrum Acid. *The Journal of Physical Chemistry*, **1995**, 99, 11481-11488 36
- 452 Localization of a charge transfer excited state in molecular crystals: a direct confirmation by femtosecond diffuse reflectance spectroscopy. *Chemical Physics Letters*, **1996**, 256, 525-530 2.5 36
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- 448 Picosecond transient absorption spectral and kinetic study on benzophenone microcrystals by diffuse reflectance laser photolysis method. *Chemical Physics Letters*, **1987**, 140, 281-285 2.5 36
- 447 Laser photolysis studies on competing processes of ionic dissociation and hydrogen abstraction in benzophenone-N,N-diethylaniline system. *Chemical Physics Letters*, **1973**, 22, 543-546 2.5 36
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