Hiroshi Masuhara

List of Publications by Year
in descending order

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567 papers	15,530 citations	58 h-index	88 g-index
		23500	48187
591 all docs	591 docs citations	591 times ranked	7964 citing authors

#	Article	IF	Citations
1	Pattern formation and flow control of fine particles by laser-scanning micromanipulation. Optics Letters, 1991, 16, 1463.	1.7	297
2	Charge Carrier Dynamics of Standard TiO2Catalysts Revealed by Femtosecond Diffuse Reflectance Spectroscopy. Journal of Physical Chemistry B, 1999, 103, 3120-3127.	1.2	269
3	Design, Synthesis, Structural and Nonlinear Optical Properties of Photochromic Crystals:Â Toward Reversible Molecular Switches. Chemistry of Materials, 2005, 17, 4727-4735.	3.2	226
4	Optical trapping of a metal particle and a water droplet by a scanning laser beam. Applied Physics Letters, 1992, 60, 807-809.	1.5	222
5	Threeâ€dimensional optical trapping and laser ablation of a single polymer latex particle in water. Journal of Applied Physics, 1991, 70, 3829-3836.	1.1	207
6	Laser Fabrication and Spectroscopy of Organic Nanoparticles. Accounts of Chemical Research, 2008, 41, 1790-1798.	7.6	186
7	Ionic photodissociation of electron donor-acceptor systems in solution. Accounts of Chemical Research, 1981, 14, 312-318.	7.6	171
8	Direct observation of a picosecond charge separation process in photoexcited platinum-loaded TiO2 particles by femtosecond diffuse reflectance spectroscopy. Chemical Physics Letters, 2001, 336, 424-430.	1.2	167
9	Nanoparticle Formation of Vanadyl Phthalocyanine by Laser Ablation of Its Crystalline Powder in a Poor Solventâ€. Journal of Physical Chemistry A, 2002, 106, 2135-2139.	1.1	147
10	Crystallization of Glycine by Photon Pressure of a Focused CW Laser Beam. Chemistry Letters, 2007, 36, 1480-1481.	0.7	147
11	Size-Dependent Spectroscopic Properties and Thermochromic Behavior in Poly(substituted thiophene) Nanoparticles. ChemPhysChem, 2004, 5, 1609-1615.	1.0	138
12	Multibeam laser manipulation and fixation of microparticles. Applied Physics Letters, 1992, 60, 310-312.	1.5	136
13	Laser Irradiated Growth of Protein Crystal. Japanese Journal of Applied Physics, 2003, 42, L798-L800.	0.8	124
14	The mechanism of dopant-induced laser ablation. Possibility of cyclic multiphotonic absorption in excited states. Chemical Physics Letters, 1994, 221, 373-378.	1.2	119
15	Laser Trapping Chemistry: From Polymer Assembly to Amino Acid Crystallization. Accounts of Chemical Research, 2012, 45, 1946-1954.	7.6	118
16	Molecular Assembling by the Radiation Pressure of a Focused Laser Beam:Â Poly(N-isopropylacrylamide) in Aqueous Solution. Langmuir, 1997, 13, 414-419.	1.6	115
17	Tipâ€induced anodization of titanium surfaces by scanning tunneling microscopy: A humidity effect on nanolithography. Applied Physics Letters, 1993, 63, 1288-1290.	1.5	114
18	Fluorescence quenching mechanism of aromatic hydrocarbons by closed-shell heavy metal ions in aqueous and organic solutions. The Journal of Physical Chemistry, 1984, 88, 5868-5873.	2.9	112

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19	Scanning Tunneling Microscope Tip-Induced Anodization for Nanofabrication of Titanium. The Journal of Physical Chemistry, 1994, 98, 4352-4357.	2.9	110
20	Laser manipulation and fixation of single gold nanoparticles in solution at room temperature. Applied Physics Letters, 2002, 80, 482-484.	1.5	107
21	Femtosecond transient absorption spectroscopy of a spirooxazine photochromic reaction. Chemical Physics Letters, 1992, 191, 189-194.	1.2	105
22	Configurational and conformational aspects in the excimer formation of bis(carbazoles). Journal of the American Chemical Society, 1984, 106, 8057-8064.	6.6	104
23	Ionic photodissociation of excited electron donor-acceptor systems. I. Empirical equation on the relation between the yield and the solvent dielectric constant. The Journal of Physical Chemistry, 1975, 79, 994-1000.	2.9	103
24	Laser-Scanning Micromanipulation and Spatial Patterning of Fine Particles. Japanese Journal of Applied Physics, 1991, 30, L907-L909.	0.8	97
25	Laser photolysis studies on quenching processes of triplet benzophenone by amines in fluid solution. The Journal of Physical Chemistry, 1975, 79, 1255-1259.	2.9	95
26	Single Particle Spectroscopic Investigation on the Interaction between Exciton Transition of Cyanine Dye J-Aggregates and Localized Surface Plasmon Polarization of Gold Nanoparticles. Journal of Physical Chemistry C, 2007, 111, 1549-1552.	1.5	93
27	Picosecond Absorption Spectra and Relaxation Processes of the Excited Singlet State of Pyrene in Solution. Laser Chemistry, 1983, 1, 357-386.	0.5	92
28	Absorption spectra and dynamics of some excited and ionic dicarbazolyl compounds with specific geometrical structures. Journal of the American Chemical Society, 1983, 105, 7256-7262.	6.6	90
29	Single Molecule Spectroscopy of Organic Dye Nanoparticles. Nano Letters, 2005, 5, 1321-1325.	4.5	88
30	In Situ Measurements of Ion-Exchange Processes in Single Polymer Particles:Â Laser Trapping Microspectroscopy and Confocal Fluorescence Microspectroscopy. Analytical Chemistry, 1996, 68, 409-414.	3.2	82
31	Size-Dependent Optical Properties of Polydiacetylene Nanocrystal. Journal of Physical Chemistry B, 2004, 108, 7674-7680.	1.2	82
32	Radiative Depopulation of the Excited Intramolecular Charge-Transfer State of 9-(4-(N,N-Dimethylamino)phenyl)phenanthrene. Journal of the American Chemical Society, 1996, 118, 2892-2902.	6.6	81
33	Femtosecond light scattering spectroscopy of single gold nanoparticles. Applied Physics Letters, 2001, 79, 1667-1669.	1.5	81
34	Hot Electron Relaxation Dynamics of Gold Nanoparticles Embedded in MgSO4 Powder Compared To Solution:â€‰ The Effect of the Surrounding Medium. Journal of Physical Chemistry B, 2002, 106, 945-955.	1.2	81
35	Fluorescence Spectroscopic Studies of Anthracene Adsorbed into Zeolites:â€‰ From the Detection of Cationâ^Ï€ Interaction to the Observation of Dimers and Crystals. Langmuir, 1998, 14, 4284-4291.	1.6	79
36	Nanofabrication of Titanium Surface by Tip-Induced Anodization in Scanning Tunneling Microscopy. Japanese Journal of Applied Physics, 1993, 32, L553-L555.	0.8	78

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37	Primary Photoreaction of Photoactive Yellow Protein Studied by Subpicosecondâ^'Nanosecond Spectroscopy. Biochemistry, 2001, 40, 6047-6052.	1.2	78
38	Ultrafast Photo-Dynamics of a Reversible Photochromic Spiropyranâ€. Journal of Physical Chemistry A, 2002, 106, 2265-2270.	1.1	75
39	Tailoring nanoparticles of aromatic and dye molecules by excimer laser irradiation. Applied Surface Science, 2000, 168, 85-88.	3.1	74
40	Comparative Investigation of Ultrafast Photoinduced Processes in Salicylidene-Aminopyridine in Solution and Solid State. Journal of Physical Chemistry C, 2009, 113, 11959-11968.	1.5	73
41	Development of a femtosecond diffuse reflectance spectroscopic system, evaluation of its temporal resolution, and applications to organic powder systems. Review of Scientific Instruments, 1998, 69, 361-371.	0.6	72
42	Time-Dependent Fluorescence Depolarization Analysis in Three-Dimensional Microspectroscopy. Applied Spectroscopy, 1995, 49, 224-228.	1.2	71
43	Three-Dimensional pH Microprobing with an Optically-Manipulated Fluorescent Particle. Chemistry Letters, 1996, 25, 141-142.	0.7	71
44	Cluster formation of nanoparticles in an optical trap studied by fluorescence correlation spectroscopy. Physical Review E, 2005, 72, 021408.	0.8	69
45	Synthesis of Sn-Porphyrin-Intercalated Trititanate Nanofibers:Â Optoelectronic Properties and Photocatalytic Activities. Chemistry of Materials, 2007, 19, 1984-1991.	3.2	69
46	Three-dimensional potential analysis of radiation pressure exerted on a single microparticle. Applied Physics Letters, 1997, 71, 37-39.	1.5	68
47	Dynamic Behaviors of the Electron Donor-Acceptor Complex in its Lowest Excited Singlet State. Bulletin of the Chemical Society of Japan, 1971, 44, 3310-3316.	2.0	67
48	Nondestructive isolation of single cultured animal cells by femtosecond laser-induced shockwave. Applied Physics A: Materials Science and Processing, 2004, 79, 795-798.	1.1	67
49	Dopant-induced ablation of poly(methyl methacrylate) by a 308-nm excimer laser. Macromolecules, 1987, 20, 450-452.	2.2	66
50	The 248 nm Excimer Laser Ablation of Liquid Benzene Derivatives: A Relation between Ablation Threshold and Molecular Photochemical Reactivity. The Journal of Physical Chemistry, 1994, 98, 11237-11241.	2.9	64
51	Photothermal conversion dynamics in femtosecond and picosecond discrete laser etching of Cu-phthalocyanine amorphous film analysed by ultrafast UVâ€"VIS absorption spectroscopy. Journal of Photochemistry and Photobiology A: Chemistry, 2001, 142, 197-207.	2.0	64
52	Reversible assembly of gold nanoparticles confined in an optical microcage. Physical Review E, 2004, 70, 061406.	0.8	62
53	Laser manipulation and ablation of a single microcapsule in water. Journal of the American Chemical Society, 1991, 113, 7859-7863.	6.6	61
54	Mass spectrometric studies on laser ablation of polystyrene sensitized with anthracene. The Journal of Physical Chemistry, 1993, 97, 13761-13766.	2.9	61

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55	Infrared Laser-Induced Photo-Thermal Phase Transition of an Aqueous Poly(N-isopropylacrylamide) Solution in the Micrometer Dimension. Bulletin of the Chemical Society of Japan, 1996, 69, 59-66.	2.0	61
56	Optical patterning and photochemical fixation of polymer nanoparticles on glass substrates. Applied Physics Letters, 2001, 78, 2566-2568.	1.5	61
57	Molecular Association by the Radiation Pressure of a Focused Laser Beam:Â Fluorescence Characterization of Pyrene-Labeled PNIPAM. Journal of the American Chemical Society, 1997, 119, 2741-2742.	6.6	60
58	Crystallization in Unsaturated Glycine/D₂O Solution Achieved by Irradiating a Focused Continuous Wave Near Infrared Laser. Crystal Growth and Design, 2010, 10, 4686-4688.	1.4	60
59	Optical Trapping-Formed Colloidal Assembly with Horns Extended to the Outside of a Focus through Light Propagation. Nano Letters, 2016, 16, 3058-3062.	4.5	60
60	Cooperative Photochemical Reaction in Molecular Crystal Induced by Intense Femtosecond Laser Excitation:Â Photochromism of Spironaphthooxazineâ€. Journal of Physical Chemistry A, 2002, 106, 2335-2340.	1.1	58
61	Femtosecond Laser-Induced Crystallization of 4-(Dimethylamino)-N-methyl-4-stilbazolium Tosylate. Crystal Growth and Design, 2005, 5, 861-863.	1.4	58
62	Glycine Crystallization in Solution by CW Laser-Induced Microbubble on Gold Thin Film Surface. ACS Applied Materials & Interfaces, 2012, 4, 1158-1163.	4.0	58
63	Laser Implantation of Pyrene Molecules into Poly(methyl methacrylate) Films. Journal of the American Chemical Society, 1994, 116, 10304-10305.	6.6	57
64	Iridium oxide-based microelectrochemical transistors for pH sensing. Sensors and Actuators B: Chemical, 1993, 12, 225-230.	4.0	56
65	Laser ablation of pyrene-doped poly(methyl methacrylate) film: Dynamics of pyrene transient species by spectroscopic measurements. The Journal of Physical Chemistry, 1995, 99, 11844-11853.	2.9	56
66	A Single Droplet Formation from Swelled Micelles by Radiation Pressure of a Focused Infrared Laser Beam. Journal of the American Chemical Society, 1996, 118, 11968-11969.	6.6	56
67	Photochromic reactions of crystalline spiropyrans and spirooxazines induced by intense femtosecond laser excitationDedicated to Professor Frank Wilkinson on the occasion of his retirement.. Physical Chemistry Chemical Physics, 2002, 4, 185-192.	1.3	56
68	Control of Crystal Polymorph of Glycine by Photon Pressure of a Focused Continuous Wave Near-Infrared Laser Beam. Journal of Physical Chemistry Letters, 2010, 1, 599-603.	2.1	56
69	Time-dependent fluorescence spectral shift and unusual slow decay of exciplex in poly(N-vinylcarbazole) films. The Journal of Physical Chemistry, 1989, 93, 5351-5353.	2.9	55
70	Organic nonlinear optical DAST crystals for electro-optic measurement and terahertz wave generation. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 183, 247-252.	2.0	55
71	Intersystem crossing of benzophenone by femtosecond transient grating spectroscopy. Chemical Physics Letters, 1992, 198, 413-418.	1.2	54
72	Direct observation of interfacial hole transfer from a photoexcited TiO2 particle to an adsorbed molecule SCN- by femtosecond diffuse reflectance spectroscopy. Research on Chemical Intermediates, 2001, 27, 177-187.	1.3	54

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73	Laser ablation for protein crystal nucleation and seeding. Chemical Society Reviews, 2014, 43, 2147-2158.	18.7	54
74	Ionic photodissociation of excited electron donor-acceptor systems. II. Importance of the chemical property of donor-acceptor pairs. The Journal of Physical Chemistry, 1976, 80, 33-37.	2.9	53
75	Photothermal Transient Expansion and Contraction Dynamics of Polymer Films by Nanosecond Interferometry. The Journal of Physical Chemistry, 1996, 100, 6871-6875.	2.9	53
76	Immobilization of diverse foreign proteins in viral polyhedra and potential application for protein microarrays. Proteomics, 2006, 6, 54-66.	1.3	53
77	Hyper-Rayleigh scattering and hyper-Raman scattering of dye-adsorbed silver nanoparticles induced by a focused continuous-wave near-infrared laser. Applied Physics Letters, 2006, 88, 084102.	1.5	53
78	Anthracene Crystallization Induced by Single-Shot Femtosecond Laser Irradiation:â€‰ Experimental Evidence for the Important Role of Bubbles. Crystal Growth and Design, 2007, 7, 885-889.	1.4	53
79	Laser-Induced Decomposition and Ablation Dynamics Studied by Nanosecond Interferometry. 1. A Triazenopolymer Film. Journal of Physical Chemistry A, 1997, 101, 5742-5747.	1.1	52
80	Photoinduced Intramolecular Charge Transfer in Diphenylamino-Substituted Triphenylbenzene, Biphenyl, and Fluorene. Journal of Physical Chemistry A, 1997, 101, 8157-8165.	1.1	52
81	Direct measurement of picosecond interfacial electron transfer from photoexcited TiO2 powder to an adsorbed molecule in the opaque suspension. Chemical Physics Letters, 1997, 275, 234-238.	1.2	52
82	Fluorescence spectra and excited singlet-singlet absorption spectra of s-tetracyanobenzene EDA complexes by laser excitation. Chemical Physics Letters, 1970, 6, 608-610.	1.2	51
83	Photon Pressure-Induced Association of Nanometer-Sized Polymer Chains in Solution. Journal of Physical Chemistry B, 1999, 103, 1660-1663.	1.2	51
84	Nondestructive micropatterning of living animal cells using focused femtosecond laser-induced impulsive force. Applied Physics Letters, 2007, 91, .	1.5	51
85	Spectral and 3-Dimensional Tracking of Single Gold Nanoparticles in Living Cells Studied by Rayleigh Light Scattering Microscopy. Journal of Physical Chemistry C, 2009, 113, 11766-11772.	1.5	51
86	Blinking photoluminescence properties of single TiO₂nanodiscs: interfacial electron transfer dynamics. Physical Chemistry Chemical Physics, 2009, 11, 534-542.	1.3	51
87	Selective Fabrication of Î±- and Î³-Polymorphs of Glycine by Intense Polarized Continuous Wave Laser Beams. Crystal Growth and Design, 2012, 12, 2427-2434.	1.4	51
88	Picosecond time-resolved fluorescence spectra of a liquid crystal: Fluorescence behavior related to phase transitions in cyanooctyloxybiphenyl. Chemical Physics Letters, 1984, 104, 485-488.	1.2	50
89	Photothermal fixation of laser-trapped polymer microparticles on polymer substrates. Applied Physics Letters, 1999, 75, 1506-1508.	1.5	50
90	Title is missing!. Journal of the Spectroscopical Society of Japan, 1982, 31, 19-30.	0.0	50

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91	Electronic structure and dynamical behavior of some intramolecular exciplexes. Journal of Luminescence, 1976, 12-13, 159-168.	1.5	49
92	Nanosecond timeâ€resolved interferometric study on morphological dynamics of doped poly(methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.5	48
93	Diffuse reflectance laser photolytic studies of naphthalene, biphenyl and some aromatic hydrocarbons adsorbed in the cavities of faujasitic zeolites. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 3653.	1.7	48
94	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. Journal of Physical Chemistry B, 2002, 106, 905-909.	1.2	48
95	Optical assembling dynamics of individual polymer nanospheres investigated by single-particle fluorescence detection. Physical Review E, 2004, 70, 061410.	0.8	48
96	Each dopant can absorb more than ten photons: Transient absorbance measurement at excitation laser wavelength in polymer ablation. Applied Physics Letters, 1994, 64, 2451-2453.	1.5	47
97	Time-resolved spectroscopic and photographic studies on laser ablation of poly(methyl methacrylate) film doped with biphenyl. The Journal of Physical Chemistry, 1995, 99, 750-757.	2.9	47
98	Millimeter-Scale Dense Liquid Droplet Formation and Crystallization in Glycine Solution Induced by Photon Pressure. Journal of Physical Chemistry Letters, 2010, 1, 1321-1325.	2.1	47
99	Laser photochemistry of poly(N-vinylcarbazole) in solution. The Journal of Physical Chemistry, 1980, 84, 2363-2368.	2.9	45
100	Poly(N-isopropylacrylamide) Microparticle Formation in Water by Infrared Laser-Induced Photo-Thermal Phase Transition. Chemistry Letters, 1993, 22, 481-484.	0.7	45
101	Solvent-Dependent Size and Phase of Vanadyl Phthalocyanine Nanoparticles Formed by Laser Ablation of VOPc Crystal-Dispersed Solution. Japanese Journal of Applied Physics, 2003, 42, 2725-2729.	0.8	45
102	Picosecond ultraviolet multiphoton laser photolysis and transient absorption spectroscopy of liquid benzenes. The Journal of Physical Chemistry, 1985, 89, 1631-1636.	2.9	43
103	Porphyrin-sensitized laser swelling and ablation of polymer films. Applied Physics A: Solids and Surfaces, 1991, 53, 255-259.	1.4	43
104	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. Polymer, 1996, 37, 31-43.	1.8	43
105	Laser-Controlled Association of Poly(N-vinylcarbazole) in Organic Solvents:Â Radiation Pressure Effect of a Focused Near-Infrared Laser Beam. Journal of Physical Chemistry B, 1997, 101, 5900-5904.	1.2	43
106	Chemical and Optical Mechanism of Microparticle Formation of Poly(N-vinylcarbazole) inN,N-Dimethylformamide by Photon Pressure of a Focused Near-Infrared Laser Beam. Journal of Physical Chemistry B, 1998, 102, 1896-1901.	1.2	43
107	Fabrication of Gold Nanoparticle-Doped Zeolite L Crystals and Characterization by Optical Microscopy: Laser Ablation- and Crystallization Inclusion-Based Approach. Journal of Physical Chemistry C, 2008, 112, 15089-15093.	1.5	43
108	Time-resolved total internal reflection fluorescence spectroscopy of polymer films. Chemical Physics Letters, 1983, 100, 415-419.	1.2	42

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109	Picosecond transient absorption spectral and kinetic study on benzophenone microcrystals by diffuse reflectance laser photolysis method. Chemical Physics Letters, 1987, 140, 281-285.	1.2	42
110	Electrochemistry and fluorescence spectroscopy of a single, laser-trapped oil droplet in water: mass transfer across microdroplet-water interface. The Journal of Physical Chemistry, 1993, 97, 5197-5199.	2.9	42
111	Observation and characterization of excimer emission from anthracene included in NaX zeolite. Chemical Physics Letters, 1994, 219, 445-451.	1.2	42
112	Two-Photon Fluorescence Spectroscopy of Individually Trapped Pseudoisocyanine J-Aggregates in Aqueous Solution. Journal of Physical Chemistry B, 2006, 110, 17906-17911.	1.2	42
113	Size and Phase Control in Quinacridone Nanoparticle Formation by Laser Ablation in Water. Japanese Journal of Applied Physics, 2006, 45, 384-388.	0.8	42
114	Three-Dimensional Space- and Time-Resolved Fluorescence Spectroscopy. Applied Spectroscopy, 1991, 45, 1041-1045.	1.2	41
115	Nanosecond imaging study on laser ablation of liquid benzene. Applied Physics Letters, 1994, 64, 2745-2747.	1.5	41
116	Spatial Control of Urea Crystal Growth by Focused Femtosecond Laser Irradiation. Crystal Growth and Design, 2006, 6, 302-305.	1.4	41
117	Optical trapping and polarization-controlled scattering of dielectric spherical nanoparticles by femtosecond laser pulses. Journal of Photochemistry and Photobiology A: Chemistry, 2012, 234, 83-90.	2.0	41
118	Laser Trapping and Crystallization Dynamics of <scp>l</scp>-Phenylalanine at Solution Surface. Journal of Physical Chemistry Letters, 2013, 4, 2436-2440.	2.1	41
119	Analysis of radiation pressure exerted on a metallic particle within an evanescent field. Optics Letters, 2000, 25, 1385.	1.7	40
120	Picosecond dynamics of excited singlet states in organic microcrystals: Diffuse reflectance laser photolysis study. Chemical Physics Letters, 1988, 150, 452-456.	1.2	39
121	Solvation dynamics of a coumarin dye at liquidâ€"solid interface layer. Picosecond total internal reflection fluorescence spectroscopic study. Chemical Physics Letters, 1992, 200, 469-474.	1.2	39
122	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.	1.2	39
123	Excited-State Dynamics of 5,10,15,20-Tetraphenyl- 21H,23H-porphine Manganese(III) Chloride Encapsulated in TiMCM-41 and MCM-41; Proved by fs-Diffuse Reflectance Laser Photolysis. Journal of Physical Chemistry B, 2001, 105, 8513-8518.	1.2	39
124	Fluorescent Doughnut-Like Assembling of Wire-Type Dendrimers Depending on Their Generation Numbers and Degrees of Polymerization. Journal of Physical Chemistry B, 2001, 105, 2885-2889.	1.2	39
125	Laser microfabrication and rotation of ship-in-a-bottle optical rotators. Applied Physics Letters, 2008, 93, 051107.	1.5	39
126	Optical Trapping of Nanoparticles by Ultrashort Laser Pulses. Science Progress, 2013, 96, 1-18.	1.0	39

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127	A Single Large Assembly with Dynamically Fluctuating Swarms of Gold Nanoparticles Formed by Trapping Laser. Nano Letters, 2018, 18, 5846-5853.	4.5	39
128	Laser manipulation and assembling of polymer latex particles in solution. Macromolecules, 1993, 26, 282-286.	2.2	38
129	Scanning tunneling microscope tip-induced anodization of titanium: Characterization of the modified surface and application to the metal resist process for nanolithography. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1994, 12, 2884.	1.6	38
130	Laser Ablation Dynamics of a Poly(methyl methacrylate) Film Doped with 5-Diazo Meldrum's Acid. The Journal of Physical Chemistry, 1995, 99, 11481-11488.	2.9	38
131	Novel applications for laser ablation of photopolymers. Applied Surface Science, 2002, 186, 14-23.	3.1	38
132	Formation of 10 nm-sized Oxo(phtalocyaninato)vanadium(IV) Particles by Femtosecond Laser Ablation in Water. Chemistry Letters, 2004, 33, 724-725.	0.7	38
133	Explosive Crystallization of Urea Triggered by Focused Femtosecond Laser Irradiation. Japanese Journal of Applied Physics, 2006, 45, L23-L26.	0.8	38
134	Optically Evolved Assembly Formation in Laser Trapping of Polystyrene Nanoparticles at Solution Surface. Langmuir, 2016, 32, 12488-12496.	1.6	38
135	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.	1.2	37
136	Dopant-induced ablation of polymers by a 308 nm excimer laser. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1988, 6, 463.	1.6	37
137	Ultrafast Decay Dynamics of Excited and Charged States in Î±-Sexithienyl Film As Revealed by Femtosecond Transient Absorption and Picosecond Fluorescence Spectroscopy. Journal of Physical Chemistry B, 1997, 101, 1510-1519.	1.2	37
138	Assembling and Orientation of Polyfluorenes in Solution Controlled by a Focused Near-Infrared Laser Beam. Journal of Physical Chemistry B, 2005, 109, 6917-6921.	1.2	37
139	Confinement of Photopolymerization and Solidification with Radiation Pressure. Journal of the American Chemical Society, 2011, 133, 14472-14475.	6.6	37
140	Absorption spectra of radical ions of polymers having carbazolyl chromophores. The Journal of Physical Chemistry, 1984, 88, 3971-3974.	2.9	36
141	Femtosecond transient absorption spectroscopy of a single perylene microcrystal under a microscope. Chemical Physics Letters, 1993, 211, 364-370.	1.2	36
142	Picosecond lasing dynamics of a single dye-doped microparticle in solution. Chemical Physics Letters, 1993, 210, 89-93.	1.2	36
143	Micrometer size dependence of mass transfer rate across a single droplet | water interface by a laser trappingâ€"electrochemistry technique. Journal of Electroanalytical Chemistry, 1994, 375, 383-386.	1.9	36
144	Switching from photochemical to photothermal mechanism in laser ablation of benzene solutions. Journal of Applied Physics, 1997, 82, 5799-5806.	1.1	36

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145	Enhancement of Biased Diffusion of Dye-Doped Nanoparticles by Simultaneous Irradiation with Resonance and Nonresonance Laser Beams. Japanese Journal of Applied Physics, 2006, 45, L453-L456.	0.8	36
146	In-situ guidance of individual neuronal processes by wet femtosecond-laser processing of self-assembled monolayers. Applied Physics Letters, 2011, 99, 163701.	1.5	36
147	Ionic Photodissociation of Electron Donor-Acceptor Complexes. Bulletin of the Chemical Society of Japan, 1973, 46, 1903-1909.	2.0	35
148	Excimer dynamics of poly(n-vinylcarbazole) films revealed by time-correlated single photon counting measurements. Chemical Physics Letters, 1987, 138, 231-236.	1.2	35
149	UV Laser Induced Jet Formation from Liquid Surface As Revealed by Nanosecond Time-Resolved Imaging and Spectroscopic Studies. The Journal of Physical Chemistry, 1995, 99, 10305-10312.	2.9	35
150	Femtosecond laser-induced crystallization of protein in gel medium. Applied Surface Science, 2007, 253, 6425-6429.	3.1	35
151	Fluorescence spectra of vacuum-deposited films of ï‰-(1-pyrenyl)alkanoic acids. Chemical Physics Letters, 1986, 132, 516-520.	1.2	34
152	Optical Micromanipulation of a Lasing Polymer Particle in Water. Japanese Journal of Applied Physics, 1993, 32, L1144-L1147.	0.8	34
153	The 248-nm Excimer-Laser-Ablation Mechanism of Liquid Benzene Derivatives:â€‰ Photochemical Formation of Benzyl Radical Leads to Ablation. Journal of Physical Chemistry A, 1998, 102, 1661-1665.	1.1	34
154	Laser-Induced Decomposition and Ablation Dynamics Studied by Nanosecond Interferometry. 2. A Reactive Nitrocellulose Film. Journal of Physical Chemistry B, 1998, 102, 3395-3401.	1.2	34
155	Gene delivery process in a single animal cell after femtosecond laser microinjection. Applied Surface Science, 2009, 255, 9880-9884.	3.1	34
156	Two-Dimensional Growth Rate Control of <scp>l</scp>-Phenylalanine Crystal by Laser Trapping in Unsaturated Aqueous Solution. Crystal Growth and Design, 2016, 16, 953-960.	1.4	34
157	Laser photolysis studies on the primary processes of photoinduced ionic polymerizations. The Journal of Physical Chemistry, 1974, 78, 341-347.	2.9	33
158	Photon tunneling from an optically manipulated microsphere to a surface by lasing spectral analysis. Applied Physics Letters, 1997, 70, 2647-2649.	1.5	33
159	Manipulation of liquid crystal textures with a focused near infrared laser beam. Applied Physics Letters, 1997, 71, 2085-2087.	1.5	33
160	Femtosecond laser ablation dynamics of amorphous film of a substituted Cuâ€“phthalocyanine. Applied Surface Science, 2000, 154-155, 192-195.	3.1	33
161	Time-resolved total internal reflection fluorescence spectroscopy for surface photophysics studies. The Journal of Physical Chemistry, 1986, 90, 5830-5835.	2.9	32
162	Modification of n-Si(100) Surface by Scanning Tunneling Microscope Tip-Induced Anodization under Nitrogen Atmosphere. Japanese Journal of Applied Physics, 1994, 33, L143-L145.	0.8	32

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