Yasuyuki Tsuboi

List of Publications by Year
in descending order

117	2,885	172457	189892
papers	citations	29 h-index	50 g-index

118	118	118	2723
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fluorescence Colour Control in Peryleneâ€Labeled Polymer Chains Trapped by Nanotextured Silicon. Angewandte Chemie - International Edition, 2022, , .	13.8	2
2	Frontispiz: Fluorescence Colour Control in Peryleneâ€Labeled Polymer Chains Trapped by Nanotextured Silicon. Angewandte Chemie, 2022, 134, .	2.0	0
3	Frontispiece: Fluorescence Colour Control in Peryleneâ€Labeled Polymer Chains Trapped by Nanotextured Silicon. Angewandte Chemie - International Edition, 2022, 61, .	13.8	0
4	Generation of Ultralong Liposome Tubes by Membrane Fusion beneath a Laser-Induced Microbubble on Gold Surfaces. ACS Omega, 2022, 7, 13120-13127.	3.5	0
5	Nanostructure-assisted optical tweezers for microspectroscopic polymer analysis. Polymer Journal, 2021, 53, 271-281.	2.7	1
6	Formation of Single Double-Layered Coacervate of Poly(N,N-diethylacrylamide) in Water by a Laser Tweezer. Langmuir, 2021, 37, 2874-2883.	3.5	7
7	Incoherent Optical Tweezers on Black Titanium. ACS Applied Materials & Interfaces, 2021, 13, 27586-27593.	8.0	9
8	Laser-Induced Transfer of Noble Metal Nanodots with Femtosecond Laser-Interference Processing. Nanomaterials, 2021, 11, 305.	4.1	14
9	Optical Trapping of Nanocrystals at Oil/Water Interfaces: Implications for Photocatalysis. ACS Applied Nano Materials, 2021, 4, 11743-11752.	5.0	4
10	Thermo-Plasmonic Trapping of Living Cyanobacteria on a Gold Nanopyramidal Dimer Array: Implications for Plasmonic Biochips. ACS Applied Nano Materials, 2020, 3, 10067-10072.	5.0	10
11	Optical Trapping of Polystyrene Nanoparticles on Black Silicon: Implications for Trapping and Studying Bacteria and Viruses. ACS Applied Nano Materials, 2020, 3, 9831-9841.	5.0	24
12	Microanalysis of Single Poly(N-isopropylacrylamide) Droplet Produced by an Optical Tweezer in Water: Isotacticity Dependence of Growth and Chemical Structure of the Droplet. Journal of Physical Chemistry B, 2020, 124, 8454-8463.	2.6	10
13	Electrophoretic Adhesion of Conductive Hydrogels. Macromolecular Rapid Communications, 2020, 41, 2000169.	3.9	8
14	Plasmonic Manipulation of DNA using a Combination of Optical and Thermophoretic Forces: Separation of Different-Sized DNA from Mixture Solution. Scientific Reports, 2020, 10, 3349.	3.3	29
15	Nanodot array deposition via single shot laser interference pattern using laser-induced forward transfer. International Journal of Extreme Manufacturing, 2020, 2, 025101.	12.7	20
16	Nanotraffic Lights: Rayleigh Scattering Microspectroscopy of Optically Trapped Octahedral Gold Nanoparticles. Journal of Physical Chemistry C, 2019, 123, 23096-23102.	3.1	3
17	Plasmonic optical trapping of pyrene-pendant polymer chains by controlling thermophoretic force. Journal of Physics: Conference Series, 2019, 1220, 012041.	0.4	0
18	Formation of a single poly(N,N-diethylacrylamide) micro-droplet in water by coupling of photothermal effects and an optical force. Journal of Physics: Conference Series, 2019, 1220, 012034.	0.4	0

#	Article	IF	Citations
19	Regular Assembly of Polymer Nanoparticles by Optical Trapping Enhanced with a Random Array of Si Needles for Reconfigurable Photonic Crystals in Liquid. ACS Applied Nano Materials, 2019, 2, 7637-7643.	5.0	14
20	Dynamics of the Phase Separation in a Thermoresponsive Polymer: Accelerated Phase Separation of Stereocontrolled Poly(N,N-diethylacrylamide) in Water. Langmuir, 2018, 34, 13690-13696.	3.5	11
21	Laser trapping/confocal Raman spectroscopic characterization of PLGA-PEG nanoparticles. Soft Matter, 2018, 14, 8090-8094.	2.7	6
22	Raman Microspectroscopic Studies on Thermo-Responsive Polymer Rich Domains Formed by Optical Tweezers. Kobunshi Ronbunshu, 2018, 75, 243-253.	0.2	0
23	Local Melting of Gold Thin Films by Femtosecond Laser-Interference Processing to Generate Nanoparticles on a Source Target. Nanomaterials, 2018, 8, 477.	4.1	5
24	Raman microspectroscopic study on an optically formed poly(N-isopropylacrylamide) rich microparticle: molecular weight dependence of a polymer concentration in the particle. , 2018, , .		1
25	Optical trapping of gold and semiconductor nanoparticles at oil-water interfaces with a focused near-infrared laser beam. , 2018, , .		1
26	Thermophoresis-assisted optical trapping of pyrene-labeled hydrophilic polymer chains. , 2018, , .		0
27	Novel non-plasmonic optical trapping: nano-structured semiconductor assisted (NASSCA) optical tweezers. , 2018, , .		0
28	Beam shaping by spatial light modulator and 4f system to square and top-flat for interference laser processing. Proceedings of SPIE, 2017, , .	0.8	13
29	Rapid hydrogel repair utilizing microgel architectures. Materials Chemistry Frontiers, 2017, 1, 1594-1599.	5.9	4
30	Nanofabrication of high throughput 30 nm hole 2D arrays by a simple visible laser ablation technique. Applied Surface Science, 2017, 420, 868-872.	6.1	6
31	Thermo-plasmonic manipulation of living cyanobacteria on a gold nanostructure. , 2017, , .		1
32	Highly Sensitive Detection of Organic Molecules on the Basis of a Poly(N-isopropylacrylamide) Microassembly Formed by Plasmonic Optical Trapping. Analytical Chemistry, 2017, 89, 532-537.	6.5	29
33	Optical tweezing and binding at high irradiation powers on black-Si. Scientific Reports, 2017, 7, 12298.	3.3	29
34	Plasmonic optical trapping of nanometer-sized J- /H- dye aggregates as explored by fluorescence microspectroscopy. Optics Express, 2017, 25, 13617.	3.4	15
35	Hydrogel Adhesion with Wrinkle Formation by Spatial Control of Polymer Networks. Journal of Physical Chemistry B, 2016, 120, 5042-5046.	2.6	27
36	Rapid Phase Separation in Aqueous Solution of Temperatureâ€Sensitive Poly(N,Nâ€diethylacrylamide). Macromolecular Chemistry and Physics, 2016, 217, 2576-2583.	2.2	14

#	Article	IF	Citations
37	Effects of Syndiotacticity on the Dynamic and Static Phase Separation Properties of Poly(N-isopropylacrylamide) in Aqueous Solution. Journal of Physical Chemistry B, 2016, 120, 7724-7730.	2.6	16
38	Macromol. Chem. Phys. 23/2016. Macromolecular Chemistry and Physics, 2016, 217, 2664-2664.	2.2	0
39	A long arm and a tight grip. Nature Nanotechnology, 2016, 11, 5-6.	31.5	11
40	Plasmonic optical trapping of soft nanomaterials such as polymer chains and DNA: micro-patterning formation. Optical Review, 2015, 22, 137-142.	2.0	16
41	Biodegradable PLGA nanoparticles loaded with hydrophobic drugs: confocal Raman microspectroscopic characterization. Journal of Materials Chemistry B, 2015, 3, 3677-3680.	5.8	26
42	A method for an approximate determination of a polymer-rich-domain concentration in phase-separated poly(N-isopropylacrylamide) aqueous solution by means of confocal Raman microspectroscopy combined with optical tweezers. Analytica Chimica Acta, 2015, 854, 118-121.	5.4	15
43	Laser Micro/Nano Processing of Materials Based on Light Absorption of Metallic Nanoparticles. The Review of Laser Engineering, 2015, 43, 740.	0.0	0
44	Plasmonic Optical Tweezers toward Molecular Manipulation: Tailoring Plasmonic Nanostructure, Light Source, and Resonant Trapping. Journal of Physical Chemistry Letters, 2014, 5, 2957-2967.	4.6	168
45	Thermally Induced Nanocrystal Array of Poly(N-Vinylcarbazole) on Si-Wafer Substrate. Materials Sciences and Applications, 2014, 05, 271-277.	0.4	0
46	Optical Trapping of Soft-Matter Nanoparticles Based on Localized Surface Plasmon Under. The Review of Laser Engineering, 2014, 42, 766.	0.0	0
47	Surface-plasmon-based optical trapping of hard nanoparticles: two-dimensional closely packed assembly of polystyrene nanospheres on a metallic nanostructure. Proceedings of SPIE, 2013, , .	0.8	0
48	Mechanistic study on plasmon-based optical trapping of hard and soft nanoparticles. , 2013, , .		0
49	Plasmon-Enhanced Photoluminescence and Photocatalytic Activities of Visible-Light-Responsive ZnS-AgInS2 Solid Solution Nanoparticles. Journal of Physical Chemistry C, 2013, 117, 2511-2520.	3.1	51
50	Temperature near Gold Nanoparticles under Photoexcitation: Evaluation Using a Fluorescence Correlation Technique. Journal of Physical Chemistry C, 2013, 117, 8388-8396.	3.1	19
51	Permanent Fixing or Reversible Trapping and Release of DNA Micropatterns on a Gold Nanostructure Using Continuous-Wave or Femtosecond-Pulsed Near-Infrared Laser Light. Journal of the American Chemical Society, 2013, 135, 6643-6648.	13.7	93
52	Resonant Excitation Effect on Optical Trapping of Myoglobin: The Important Role of a Heme Cofactor. Journal of Physical Chemistry C, 2013, 117, 10691-10697.	3.1	38
53	Accelerating the Phase Separation in Aqueous Poly(N-isopropylacrylamide) Solutions by Slight Modification of the Polymer Stereoregularity: A Single Molecule Fluorescence Study. Journal of Physical Chemistry C, 2013, 117, 10818-10824.	3.1	17
54	Reversible Photoinduced Formation and Manipulation of a Two-Dimensional Closely Packed Assembly of Polystyrene Nanospheres on a Metallic Nanostructure. Journal of Physical Chemistry C, 2013, 117, 2500-2506.	3.1	71

#	Article	IF	Citations
55	Optical Trapping of Nanoparticles and Polymers Based on Localized Surface Plasmons. The Review of Laser Engineering, 2013, 41, 361.	0.0	0
56	Metallic-Nanostructure-Enhanced Optical Trapping of Flexible Polymer Chains in Aqueous Solution As Revealed by Confocal Fluorescence Microspectroscopy. Journal of Physical Chemistry C, 2012, 116, 14610-14618.	3.1	54
57	Plasmon-Based Optical Trapping of Polymer Nano-Spheres as Explored by Confocal Fluorescence Microspectroscopy: A Possible Mechanism of a Resonant Excitation Effect. Japanese Journal of Applied Physics, 2012, 51, 092001.	1.5	16
58	Phaseâ€Separation Dynamics of Aqueous Poly (Nâ€isopropylacrylamide) Solutions: Characteristic Behavior of the Molecular Weight and Concentration Dependences. Macromolecular Chemistry and Physics, 2012, 213, 1879-1884.	2.2	18
59	Preparation and Shape-Modification of Silver Colloids by Laser Ablation in Liquids: A Brief Review. Science of Advanced Materials, 2012, 4, 391-400.	0.7	12
60	Tunable photoluminescence from the visible to near-infrared wavelength region of non-stoichiometric AgInS2 nanoparticles. Journal of Materials Chemistry, 2012, 22, 12851.	6.7	135
61	Phase Separation Dynamics of Aqueous Poly [(2â€ethoxy) ethoxy ethyl vinyl ether] Solutions as Explored using the Laser Tâ€Jump Technique Combined With Photometry. Macromolecular Chemistry and Physics, 2012, 213, 374-381.	2.2	11
62	Plasmon-Based Optical Trapping of Polymer Nano-Spheres as Explored by Confocal Fluorescence Microspectroscopy: A Possible Mechanism of a Resonant Excitation Effect. Japanese Journal of Applied Physics, 2012, 51, 092001.	1.5	15
63	Nanoscale Laser Processing of Hollow Silica Microbeads Assisted by Surface Plasmon Resonance of Gold Particles. Chemistry Letters, 2011, 40, 1411-1413.	1.3	1
64	Acceleration of a photochromic ring-opening reaction of diarylethene derivatives by excitation of localized surface plasmon. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 221, 250-255.	3.9	18
65	Enhancement of 2-Photon Absorption of a Dye in a Polymer Microsphere Based on an Optical Cavity Effect. Analytical Sciences, 2010, 26, 1241-1245.	1.6	4
66	Optical Trapping of Amino Acids in Aqueous Solutions. Journal of Physical Chemistry C, 2010, 114, 5589-5593.	3.1	75
67	Optical Trapping of Quantum Dots Based on Gap-Mode-Excitation of Localized Surface Plasmon. Journal of Physical Chemistry Letters, 2010, 1, 2327-2333.	4.6	122
68	Optical manipulation of proteins in aqueous solution. Applied Surface Science, 2009, 255, 9906-9908.	6.1	44
69	Phase transition dynamics of fluorescent-labeled poly(N-isopropylacrylamide) in aqueous solution as revealed by time-resolved spectroscopy combined with a laser T-jump technique. Chemical Physics Letters, 2009, 468, 42-45.	2.6	15
70	Near-Infrared Continuous-Wave Light Driving a Two-Photon Photochromic Reaction with the Assistance of Localized Surface Plasmon. Journal of the American Chemical Society, 2009, 131, 12623-12627.	13.7	128
71	Optical Trapping and of Micro-Spectroscopy of Proteins. Seibutsu Butsuri, 2009, 49, 252-255.	0.1	0
72	Preparation of silver nanoparticles by laser ablation in polyvinylpyrrolidone solutions. Applied Surface Science, 2008, 254, 5224-5230.	6.1	226

#	Article	IF	Citations
73	Laser-Induced Reversible Volume Phase Transition of a Poly(N-isopropylacrylamide) Gel Explored by Raman Microspectroscopy. Polymer Journal, 2008, 40, 367-374.	2.7	14
74	Laser-Induced Shock Wave Can Spark Triboluminescence of Amorphous Sugars. Journal of Physical Chemistry A, 2008, 112, 6517-6521.	2.5	32
75	Phase Separation Dynamics of Aqueous Solutions of Thermoresponsive Polymers Studied by a Laser T-Jump Technique. Journal of Physical Chemistry B, 2008, 112, 2562-2565.	2.6	39
76	Phase Separation of Aqueous Poly(vinyl methyl ether) Solutions Induced by the Photon Pressure of a Focused Near-Infrared Laser Beam. Bulletin of the Chemical Society of Japan, 2007, 80, 1926-1931.	3.2	16
77	Crystallization of Lysozyme Based on Molecular Assembling by Photon Pressure. Japanese Journal of Applied Physics, 2007, 46, L1234.	1.5	47
78	Nanosecond Time-Resolved Observations of Laser Ablation of Silver in Water. Japanese Journal of Applied Physics, 2007, 46, 1533-1535.	1.5	104
79	A sensor for adenosine triphosphate fabricated by laser-induced forward transfer of luciferase onto a poly(dimethylsiloxane) microchip. Applied Surface Science, 2007, 253, 8422-8427.	6.1	21
80	Molecular Probe for a Fluorous Medium: Long-Lived Phosphorescence of .ALPHA.-Diketones in Perfluoromethylcyclohexane at Room Temperature. Analytical Sciences, 2005, 21, 303-308.	1.6	1
81	Poly(N-Isopropylacrylamide) Microparticles Produced by Radiation Pressure of a Focused Laser Beam:Â A Structural Analysis by Confocal Raman Microspectroscopy Combined with a Laser-Trapping Technique. Journal of Physical Chemistry B, 2005, 109, 7033-7039.	2.6	65
82	Template-Guided Synthesis and Individual Characterization of Poly(N-isopropylacrylamide)-Based Microgels. Langmuir, 2005, 21, 7076-7079.	3.5	21
83	Microsecond-resolved imaging of laser ablation at solidâ€“liquid interface: investigation of formation process of nano-size metal colloids. Applied Surface Science, 2004, 229, 365-371.	6.1	102
84	Fluorescent Crystalloluminescence ofN-Isopropylcarbazole. Journal of Physical Chemistry B, 2004, 108, 2822-2826.	2.6	9
85	AFM observation of silk fibroin on mica substrates: morphologies reflecting the secondary structures. Thin Solid Films, 2003, 440, 208-216.	1.8	37
86	Nonlinear Photophysics and Ablation of Liquid Naphthalene Derivatives:â€‰ Fluence-Dependence of Luminescence Spectra upon 248 nm Laser Excitation. Journal of Physical Chemistry A, 2003, 107, 3017-3023.	2.5	4
87	Laser-Driven Shock Wave-Induced Triboluminescence of an Organic Crystal:â€‰ Toward a Semiquantitative Study. Journal of Physical Chemistry B, 2003, 107, 7547-7550.	2.6	24
88	Thin Films Formation of Organic Polymers by Photosensitized Pulsed Laser Deposition.. The Review of Laser Engineering, 2003, 31, 135-140.	0.0	1
89	Laser Ablation of Silk Protein (Fibroin) Films. Japanese Journal of Applied Physics, 2002, 41, 4772-4779.	1.5	18
90	Nanosecond and Femtosecond Laser Photochemistry and Ablation Dynamics of Neat Liquid Benzenes. Journal of Physical Chemistry B, 2002, 106, 3049-3060.	2.6	31

#	Article	IF	Citations
91	Picosecond Dynamics of Excited 9,9â€˜-Bianthryl Adsorbed on Porous Glass:Â Role of Symmetry Breaking in the Ground Stateâ€. Journal of Physical Chemistry A, 2002, 106, 2067-2073.	2.5	16
92	Pulsed Laser Deposition of Poly(tetrafluoroethylene), Poly(methylmethacrylate), and Polycarbonate Utilizing Anthracene-Photosensitized Ablation. Japanese Journal of Applied Physics, 2002, 41, 885-890.	1.5	16
93	Pulsed laser deposition of silk protein: Effect of photosensitized-ablation on the secondary structure in thin deposited films. Journal of Applied Physics, 2001, 89, 7917-7923.	2.5	32
94	Pulsed laser deposition of collagen and keratin. Journal of Photochemistry and Photobiology A: Chemistry, 2001, 145, 209-214.	3.9	32
95	Absorption Spectra of C60-Excited States in Various Solvents: Their Dependence on the Ionization Potential of Solvent Molecules. Bulletin of the Chemical Society of Japan, 2000, 73, 589-598.	3.2	7
96	Vacuum-deposited films of mesogen of 4-n-pentyl-4â€³-cyano-p-terphenyl: their electronic spectra and molecular aggregate structures. Thin Solid Films, 2000, 370, 285-293.	1.8	5
97	Deposition of a thin polystyrene film by anthracene-photosensitized laser ablation at 351 nm. Applied Physics Letters, 1999, 74, 3896-3898.	3.3	21
98	Thin films formation of poly(N-vinylcarbazole) by laser ablation deposition. Journal of Applied Physics, 1999, 85, 4189-4195.	2.5	20
99	Vacuum-deposited films of liquid crystal molecules of 4-n-alkoxy-4â€™-cyanobiphenyls: Their electronic spectra and molecular aggregate structures. Thin Solid Films, 1999, 338, 243-251.	1.8	6
100	Effect of applied voltage on aggregate structure of microcrystals in vacuum-deposited films of mesogens. Journal of Crystal Growth, 1998, 193, 732-737.	1.5	0
101	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.	2.5	34
102	Magnetic Field Effect on Laser Ablation of Organic Polymer Films as Revealed by Atomic Force Microscopy. Molecular Crystals and Liquid Crystals, 1998, 314, 291-296.	0.3	0
103	Thin Film Formation of a Protein by Laser Ablation Deposition Technique. Chemistry Letters, 1998, 27, 521-522.	1.3	20
104	Preparation of a Novel Thin Film Utilizing a Magnetic Field: Alignment of Organic Microcrystals as Revealed by Atomic Force Microscopy. Japanese Journal of Applied Physics, 1997, 36, L1048-L1050.	1.5	7
105	Switching from photochemical to photothermal mechanism in laser ablation of benzene solutions. Journal of Applied Physics, 1997, 82, 5799-5806.	2.5	36
106	Photoinduced Electron Transfer Processes of C60-Doped Poly(N-vinylcarbazole) Films As Revealed by Picosecond Laser Photolysis. Journal of Physical Chemistry B, 1997, 101, 5118-5123.	2.6	46
107	Vacuum-deposited films of liquid crystal molecule of 4-dodecyloxy-4â€²-cyanobiphenyl: Their electronic spectra and molecular aggregate structures. Thin Solid Films, 1997, 311, 277-285.	1.8	13
108	Photothermal Ablation of Polystyrene Film by 248 NM Excimer Laser Irradiation: a Mechanistic Study by Time-Resolved Measurements. Laser Chemistry, 1996, 16, 167-177.	0.5	22

#	Article	IF	Citations
109	Interferometric spectral imaging of liquid in laser ablation. Review of Scientific Instruments, 1996, 67, 3222-3228.	1.3	7
110	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
111	Intramolecular charge transfer in rigidly linked naphthaleneâ€“trialkylamine compounds. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 4047-4057.	1.7	39
112	Dynamics of Laser Induced Morphological Changes of Liquids Part I. Cavitation and Explosive Vaporization of Liquids.. The Review of Laser Engineering, 1995, 23, 2-8.	0.0	4
113	Dynamics of Laser Induced Morphological Changes of Liquids Part II. Liquid Ablation by Electronic Excitation.. The Review of Laser Engineering, 1995, 23, 9-15.	0.0	2
114	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
115	Nanosecond imaging study on laser ablation of liquid benzene. Applied Physics Letters, 1994, 64, 2745-2747.	3.3	41
116	Nanohole Processing of Polymer Films Based on the Laser-Induced Superheating of Au Nanoparticles. Applied Physics Express, 0, 1, 087001.	2.4	22
117	Fluorescence Colour Control in Peryleneâ€Labeled Polymer Chains Trapped by Nanotextured Silicon. Angewandte Chemie, 0, , .	2.0	0