

Hiroshi Yao

List of Publications by Year in descending order

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113
papers

3,116
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172457

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113
docs citations

113
times ranked

2987
citing authors

#	ARTICLE	IF	CITATIONS
1	NMR evidence for energy gap opening in thiol-capped platinum nanoparticles. <i>Physical Review B</i> , 2022, 105, .	3.2	1
2	Magnetic Circular Dichroism Study on Dual Plasmonic Au@CuS Core-Shell Nanoparticles: Effects of Shell Thickness and Uniformity. <i>Journal of Physical Chemistry C</i> , 2022, 126, 7933-7940.	3.1	4
3	Unveiling the presence of metallic Co in chemically fabricated Au@CoO core-shell nanoparticles by magnetic circular dichroism (MCD) spectroscopy. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 560, 169591.	2.3	1
4	Photofunctional organic nanostructures of merocyanine dye fabricated via co-ion-assisted ion association: Morphology transformation from nanospheres to nanofibrils. <i>Chemical Physics</i> , 2022, 562, 111630.	1.9	0
5	On the electronic transitions of $\hat{\pm}$ -Fe ₂ O ₃ hematite nanoparticles with different size and morphology: Analysis by simultaneous deconvolution of UV-vis absorption and MCD spectra. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 517, 167389.	2.3	13
6	Mixed-diphosphine-protected chiral undecagold clusters Au ₁₁ (S,S-DIOP) ₄ (rac-/R-/S-BINAP): effect of the handedness of BINAP on their chiroptical responses. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 16847-16854.	2.8	0
7	Magnetic Circular Dichroism Responses with High Sensitivity and Enhanced Spectral Resolution in Multipolar Plasmonic Modes of Silver Nanoparticles with Dimensions between 90 and 200 nm. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 9377-9383.	4.6	8
8	Optical and magneto-optical properties of rhodium nanostructures with different morphologies: Insight into the absorption bump in the UV region. <i>Chemical Physics Letters</i> , 2021, 779, 138866.	2.6	1
9	Sensitive detection of small polaron transitions in cesium-doped tungsten bronze Cs _x WO ₃ nanostructures using magnetic circular dichroism spectroscopy. <i>Journal of Nanophotonics</i> , 2021, 15, .	1.0	2
10	Fluorescent Organic Lewis-Pair Nanoparticles: Excited-State Intramolecular Proton Transfer Molecule 2-(2-Hydroxyphenyl)benzothiazole Undergoes GS IPT Reactions To Be a Solid-State Nanoemitter. <i>Journal of Physical Chemistry B</i> , 2021, 125, 13937-13945.	2.6	3
11	Organic nanoparticles of anion-based fluorophore 8-anilino-1-naphthalenesulfonate (ANS): Effects of ion-association and post-dilution. <i>Journal of Molecular Structure</i> , 2020, 1200, 127122.	3.6	3
12	Dominant role of iron oxides in magnetic circular dichroism of plasmonic-magnetic Au-Fe ³⁺ O ₄ heterodimer nanostructures. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 500, 166385.	2.3	1
13	Chiral-Achiral Ligand Synergy in Enhancing the Chiroptical Activity of Diphosphine-Protected Au ₁₃ Clusters. <i>Journal of Physical Chemistry C</i> , 2020, 124, 25547-25556.	3.1	8
14	Strong chiroptical activity in Au ₂₅ clusters protected by mixed ligands of chiral phosphine and achiral thiolate. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 15288-15294.	2.8	1
15	Intense Plasmon-Induced Magneto-Optical Activity in Substoichiometric Tungsten Oxide (WO _{3-x}) Nanowires/Nanorods. <i>Journal of Physical Chemistry C</i> , 2020, 124, 15460-15467.	3.1	13
16	Magnetic circular dichroism in plasmonic Ag@Au core-shell nanoparticles: how does the magneto-optical activity tune?. <i>Journal of Nanophotonics</i> , 2020, 14, 1.	1.0	2
17	Magnetic Circular Dichroism of Substoichiometric Molybdenum Oxide (MoO _{3-x}) Nanoarchitectures with Polaronic Defects. <i>Journal of Physical Chemistry C</i> , 2019, 123, 18620-18628.	3.1	11
18	Application of magnetic circular dichroism (MCD) to morphological quality evaluation of silver nanodecahedra. <i>Chemical Physics Letters</i> , 2019, 732, 136637.	2.6	7

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19	Chirality in Au ₉ clusters protected by chiral/achiral mixed bidentate phosphine ligands: influence of the metal core and ligand array. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 14984-14991.	2.8	9
20	Amplified Near-IR Fluorescence in Organic Rhodamine-800 Nanoparticles under the Efficient Control of Aggregation-caused Quenching. <i>Chemistry Letters</i> , 2019, 48, 1339-1342.	1.3	2
21	Size dependence of magneto-optical activity in silver nanoparticles with dimensions between 10 and 60 nm studied by MCD spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 4269-4276.	2.8	20
22	Water-Soluble Mixed-Phosphine-Protected Gold Clusters: Can a Single Axially Chiral Ligand Lead to Large Chiroptical Responses?. <i>Journal of Physical Chemistry C</i> , 2018, 122, 1299-1308.	3.1	10
23	Organic nanoparticles based on Lewis-pair formation: observation of prototropically controlled dual fluorescence. <i>Photochemical and Photobiological Sciences</i> , 2018, 17, 1376-1385.	2.9	3
24	Magnetic circular dichroism (MCD) in silver nanocubes with different sizes. <i>Chemical Physics Letters</i> , 2018, 706, 607-612.	2.6	8
25	Multipolar Surface Magnetoplasmon Resonances in Triangular Silver Nanoprisms studied by MCD Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2017, 121, 761-768.	3.1	26
26	Organic Ion-Pair Charge-Transfer (IPCT) Nanoparticles: Synthesis and Photoinduced Electrochromism. <i>Langmuir</i> , 2017, 33, 219-227.	3.5	6
27	Water-soluble phosphine-protected Au ₉ clusters: Electronic structures and nuclearity conversion via phase transfer. <i>Chemical Physics</i> , 2017, 493, 149-156.	1.9	10
28	Improving the Quality of Electrophoretically-fractionated Chiral Au ₃₈ (SG) ₂₄ Nanoclusters through a Stepwise Phase-transfer Extraction Process: An Absorption and CD Spectroscopic Study. <i>Chemistry Letters</i> , 2017, 46, 104-107.	1.3	2
29	Individual and collective modes of surface magnetoplasmon in thiolate-protected silver nanoparticles studied by MCD spectroscopy. <i>Nanoscale</i> , 2016, 8, 11264-11274.	5.6	33
30	Organic nanoparticles of an extended π -conjugated styryl dye: Modulation of fluorescence peak energy and intensity in the near-infrared (NIR) region. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 330, 140-149.	3.9	5
31	Chiral ligand-protected gold nanoclusters: Considering the optical activity from a viewpoint of ligand dissymmetric field. <i>Progress in Natural Science: Materials International</i> , 2016, 26, 428-439.	4.4	30
32	Magnetic circular dichroism of thiolate-protected plasmonic gold nanoparticles: separating the effects of interband transitions and surface magnetoplasmon resonance. <i>Journal of Nanophotonics</i> , 2016, 10, 046004.	1.0	11
33	Size and morphology effects on the fluorescence properties of π -conjugated poly(p-phenylene) polyelectrolyte nanoparticles synthesized via polyion association. <i>Journal of Materials Chemistry C</i> , 2016, 4, 2945-2953.	5.5	9
34	Water-Soluble Phosphine-Protected Au ₁₁ Clusters: Synthesis, Electronic Structure, and Chiral Phase Transfer in a Synergistic Fashion. <i>Langmuir</i> , 2016, 32, 3284-3293.	3.5	27
35	Enhanced Chiroptical Activity in Glutathione-Protected Bimetallic (AuAg) ₁₈ Nanoclusters with Almost Intact Core-Shell Configuration. <i>Journal of Physical Chemistry C</i> , 2016, 120, 1284-1292.	3.1	24
36	Monolayer-Protected Metal Nanoclusters with Chirality: Synthesis, Size Fractionation, Optical Activity and Asymmetric Transformation. , 2016, , 191-216.		1

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37	Chiral Ligand-Protected Bimetallic Nanoclusters: How does the Metal Core Configuration Influence the Nanocluster's Chiroptical Responses?. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1802, 1-12.	0.1	0
38	Influence of Surface Protonation/Deprotonation Stimuli on the Chiroptical Responses of (R)-S-Mercaptosuccinic Acid-protected Gold Nanoclusters. <i>Chemistry Letters</i> , 2015, 44, 171-173.	1.3	5
39	Fluorescent π -conjugated polymer nanoparticles: A new synthetic approach based on nanoagglomeration via polyion association. <i>Journal of Materials Research</i> , 2015, 30, 10-18.	2.6	2
40	Organic nanoparticles of malachite green with enhanced far-red emission: size-dependence of particle rigidity. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 11006-11013.	2.8	28
41	Monolayer-Protected Metal Nanoclusters with Chirality: Synthesis, Size Fractionation, Optical Activity and Asymmetric Transformation. , 2015, , 1-22.		0
42	Chiral monolayer-protected Au-Pd bimetallic nanoclusters: Effect of palladium doping on their chiroptical responses. <i>Journal of Colloid and Interface Science</i> , 2014, 419, 1-8.	9.4	15
43	Mechanically inducible fluorescence colour switching in the formation of organic nanoparticles of an ES IPT molecule. <i>Chemical Communications</i> , 2014, 50, 2748-2750.	4.1	23
44	Chiral Monolayer-Protected Bimetallic Au-Ag Nanoclusters: Alloying Effect on Their Electronic Structure and Chiroptical Activity. <i>Journal of Physical Chemistry C</i> , 2014, 118, 15506-15515.	3.1	49
45	Surface magnetoplasmons in silver nanoparticles: Apparent magnetic-field enhancement manifested by simultaneous deconvolution of UV-vis absorption and MCD spectra. <i>Chemical Physics Letters</i> , 2014, 609, 93-97.	2.6	9
46	On the surface structure of 1,3-dithiol-protected gold nanoparticles interpreted by the size effect of IR absorption properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 426, 39-46.	4.7	4
47	Size-dependent spectral linewidth narrowing of H-bands in organic nanoparticles of pentamethine cyanine dye. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 271, 124-129.	3.9	15
48	Emergence of Large Chiroptical Responses by Ligand Exchange Cross-Linking of Monolayer-Protected Gold Clusters with Chiral Dithiol. <i>Langmuir</i> , 2013, 29, 6444-6451.	3.5	12
49	Controlled Formation of Fluorescent Organic Nanoparticles of Carbocyanine Dye via Ion-association Approach. <i>Chemistry Letters</i> , 2012, 41, 1119-1121.	1.3	15
50	On the Electronic Structures of Au ₂₅ (SR) ₁₈ Clusters Studied by Magnetic Circular Dichroism Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1701-1706.	4.6	53
51	Chemical transformation of chiral monolayer-protected gold clusters: observation of ligand size effects on optical and chiroptical responses. <i>Nanoscale</i> , 2012, 4, 955.	5.6	9
52	Boronic Acid-Protected Gold Clusters Capable of Asymmetric Induction: Spectral Deconvolution Analysis of Their Electronic Absorption and Magnetic Circular Dichroism. <i>Langmuir</i> , 2012, 28, 3995-4002.	3.5	12
53	Efficient Excitation-Energy Transfer in Ion-Based Organic Nanoparticles with Versatile Tunability of the Fluorescence Colours. <i>ChemPhysChem</i> , 2012, 13, 2703-2710.	2.1	9
54	Organic Porphyrin Nanoparticles with Induced Optical Activity: Ion-Based Synthesis from Achiral Chromophore and Chiral Counterions. <i>Chemistry of Materials</i> , 2011, 23, 913-922.	6.7	9

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55	Highly fluorescent organic nanoparticles of thiocyanine dye: A synergetic effect of intermolecular H-aggregation and restricted intramolecular rotation. <i>RSC Advances</i> , 2011, 1, 834.	3.6	59
56	Organic mediator-induced structural transformation in superlattices of monolayer-protected gold nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2011, 354, 55-60.	9.4	1
57	Synthesis, characterization and optical properties of organic nanoparticles of piroxicam anti-inflammatory drug. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 212, 170-175.	3.9	5
58	Conformational study of chiral penicillamine ligand on optically active silver nanoclusters with IR and VCD spectroscopy. <i>Chemical Physics</i> , 2010, 368, 28-37.	1.9	24
59	Carbon graphite surfaces modified with two-dimensional arrays of N-acetyltripeptide-protected gold nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 361, 174-179.	4.7	1
60	Prospects for Organic Dye Nanoparticles. <i>Springer Series on Fluorescence</i> , 2010, , 285-304.	0.8	9
61	Induced Optical Activity in Boronic-Acid-Protected Silver Nanoclusters by Complexation with Chiral Fructose. <i>Journal of Physical Chemistry C</i> , 2010, 114, 15909-15915.	3.1	37
62	Gold nanoparticle superlattices self-assembled at a solid/liquid interface. <i>Microelectronic Engineering</i> , 2009, 86, 809-811.	2.4	3
63	Organic Styryl Dye Nanoparticles: Synthesis and Unique Spectroscopic Properties. <i>Langmuir</i> , 2009, 25, 1131-1137.	3.5	43
64	Size Determination of Gold Clusters by Polyacrylamide Gel Electrophoresis in a Large Cluster Region. <i>Journal of Physical Chemistry C</i> , 2009, 113, 14076-14082.	3.1	75
65	Fluorescent Gold Nanoparticle Superlattices. <i>Advanced Materials</i> , 2008, 20, 4719-4723.	21.0	40
66	Effect of organic solvents on J aggregation of pseudoisocyanine dye at mica/water interfaces: Morphological transition from three-dimension to two-dimension. <i>Journal of Colloid and Interface Science</i> , 2008, 318, 116-123.	9.4	10
67	Asymmetric Transformation of Monolayer-Protected Gold Nanoclusters via Chiral Phase Transfer. <i>Journal of Physical Chemistry C</i> , 2008, 112, 16281-16285.	3.1	49
68	Chiral Functionalization of Optically Inactive Monolayer-Protected Silver Nanoclusters by Chiral Ligand-Exchange Reactions. <i>Langmuir</i> , 2008, 24, 2759-2766.	3.5	77
69	Proof of Partial Flattening of Meso Substituents in Tetracationic Porphyrin at a Mica/Solution Interface. <i>Chemistry Letters</i> , 2008, 37, 594-595.	1.3	3
70	Optically Active Gold Nanoclusters. <i>Current Nanoscience</i> , 2008, 4, 92-97.	1.2	56
71	Three-dimensional gold nanoparticle superlattices: Structures and optical absorption characteristics. <i>Journal of Applied Physics</i> , 2007, 101, 114314.	2.5	30
72	Organic Nanoparticles of Cyanine Dye in Aqueous Solution. <i>Bulletin of the Chemical Society of Japan</i> , 2007, 80, 295-302.	3.2	22

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73	Chemometric and Microscopic Analyses for the Size Growth of Monolayer-Protected Gold Nanoparticles during Their Superlattice Formation. <i>Langmuir</i> , 2007, 23, 13151-13157.	3.5	4
74	Synthesis and Chiroptical Study of <i>d/l</i> -Penicillamine-Capped Silver Nanoclusters. <i>Chemistry of Materials</i> , 2007, 19, 2831-2841.	6.7	118
75	Electrolyte-Induced Mesoscopic Aggregation of Thiocarbocyanine Dye in Aqueous Solution: A Counterion Size Specificity. <i>Journal of Physical Chemistry B</i> , 2007, 111, 7176-7183.	2.6	33
76	Chiroptical Responses of <i>d/l</i> -Penicillamine-Capped Gold Clusters under Perturbations of Temperature Change and Phase Transfer. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14968-14976.	3.1	73
77	Preparation and optical properties of organic nanoparticles of porphyrin without self-aggregation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007, 189, 7-14.	3.9	51
78	Self-assembly of acridine orange dye at a mica/solution interface: Formation of nanostripe supramolecular architectures. <i>Journal of Colloid and Interface Science</i> , 2007, 307, 272-279.	9.4	18
79	Self-Assembling of Gold and Silver Nanoparticles at a Hydrophilic/Hydrophobic Interface: A Synthetic Aspect and Superstructure Formation. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2006, 36, 237-264.	1.8	20
80	Kinetic Stabilization of Growing Gold Clusters by Passivation with Thiolates. <i>Journal of Physical Chemistry B</i> , 2006, 110, 12218-12221.	2.6	103
81	Fivefold Symmetry in Superlattices of Monolayer-Protected Gold Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2006, 110, 14040-14045.	2.6	33
82	Organic Nanoparticles of Porphyrin without Self-aggregation. <i>Chemistry Letters</i> , 2006, 35, 782-783.	1.3	13
83	Detection of spectral inhomogeneities of mesoscopic thiocyanine J aggregates in solution by the apparent CD spectral measurement. <i>Chemical Physics Letters</i> , 2006, 419, 21-27.	2.6	8
84	Ion-based Organic Nanoparticles: Synthesis, Characterization, and Optical Properties of Pseudoisocyanine Dye Nanoparticles. <i>Chemistry Letters</i> , 2005, 34, 1108-1109.	1.3	16
85	In Situ Detection of Birefringent Mesoscopic Hand Aggregates of Thiocarbocyanine Dye in Solution. <i>Langmuir</i> , 2005, 21, 1067-1073.	3.5	95
86	Large Optical Activity of Gold Nanocluster Enantiomers Induced by a Pair of Optically Active Penicillamines. <i>Journal of the American Chemical Society</i> , 2005, 127, 15536-15543.	13.7	243
87	Self-Assembly of Si Nanoparticles: Emergence of Two-Dimensional Si Nanoparticle Lattices. <i>Japanese Journal of Applied Physics</i> , 2004, 43, L927-L929.	1.5	9
88	Dynamic morphology of mesoscopic pseudoisocyanine J aggregates on mica induced by humidity treatments. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2004, 236, 31-37.	4.7	8
89	Large birefringence of single J aggregate nanosheets of thiocyanine dye in solution. <i>Chemical Physics Letters</i> , 2004, 396, 316-322.	2.6	8
90	Interparticle Spacing Control in the Superlattices of Carboxylic Acid-Capped Gold Nanoparticles by Hydrogen-Bonding Mediation. <i>Langmuir</i> , 2004, 20, 10317-10323.	3.5	54

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91	Inclusion-Water-Cluster in a Three-Dimensional Superlattice of Gold Nanoparticles. <i>Journal of the American Chemical Society</i> , 2004, 126, 7438-7439.	13.7	47
92	Magic-Numbered AuClusters Protected by Glutathione Monolayers (n= 18, 21, 25, 28, 32, 39): \hat{A} Isolation and Spectroscopic Characterization. <i>Journal of the American Chemical Society</i> , 2004, 126, 6518-6519.	13.7	529
93	Collapse and Self-Reconstruction of Mesoscopic Architectures of Supramolecular J Aggregates in Solution: From Strings to Tubular Rods. <i>Letters in Organic Chemistry</i> , 2004, 1, 280-287.	0.5	15
94	Mesodomain separation in amalgamated J aggregate formation of cyanine dyes at a mica/solution interface. <i>Surface Science</i> , 2003, 546, 97-106.	1.9	9
95	Equilibrium growth of three-dimensional gold nanoparticle superlattices. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003, 17, 521-522.	2.7	29
96	Superstructures of Mesoscopic Monomolecular Sheets of Thiocyanine J Aggregates in Solution. <i>Langmuir</i> , 2003, 19, 8882-8887.	3.5	19
97	Construction of 2D Superlattices of Gold Nanoparticles at an Air/Water Interface Based on Hydrogen-Bonding Networks. <i>Chemistry Letters</i> , 2003, 32, 698-699.	1.3	5
98	Morphology transformation of mesoscopic supramolecular J aggregates in solution. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 4560-4565.	2.8	31
99	Stepwise Size-Selective Extraction of Carboxylate-Modified Gold Nanoparticles from an Aqueous Suspension into Toluene with Tetrabutylammonium Cations. <i>Chemistry of Materials</i> , 2001, 13, 4692-4697.	6.7	92
100	Particle Crystals of Surface Modified Gold Nanoparticles Grown from Water. <i>Chemistry Letters</i> , 2001, 30, 372-373.	1.3	33
101	Large absorption reduction for mesoscopic thiocyanine J aggregates in solution. <i>Chemical Physics Letters</i> , 2001, 340, 211-216.	2.6	6
102	Phase Transfer of Gold Nanoparticles across a Water/Oil Interface by Stoichiometric Ion-Pair Formation on Particle Surfaces. <i>Bulletin of the Chemical Society of Japan</i> , 2000, 73, 2675-2678.	3.2	41
103	Mesoscopic string structures of thiocyanine J aggregates in solution. <i>Chemical Communications</i> , 2000, , 739-740.	4.1	25
104	Anisotropic Growth of J Aggregates of Pseudoisocyanine Dye at a Mica/Solution Interface Revealed by AFM and Polarization Absorption Measurements. <i>Journal of Physical Chemistry B</i> , 1999, 103, 6909-6912.	2.6	44
105	Spectroscopic and AFM Studies on the Structures of Pseudoisocyanine J Aggregates at a Mica/Water Interface. <i>Journal of Physical Chemistry B</i> , 1999, 103, 4452-4456.	2.6	60
106	CdS Nanocrystal/Chelate Polymer Hybrid Systems: Controls of Optical and Morphological Properties by Monochromatic Photoirradiation. <i>Polymer Journal</i> , 1999, 31, 1133-1138.	2.7	2
107	Electrolyte Effects on CdS Nanocrystal Formation in Chelate Polymer Particles: \hat{A} Optical and Distribution Properties. <i>Langmuir</i> , 1998, 14, 595-601.	3.5	24
108	Surface-Induced J Aggregation of Pseudoisocyanine Dye at a Glass/Solution Interface Studied by Total-Internal-Reflection Fluorescence Spectroscopy. <i>Journal of Physical Chemistry B</i> , 1998, 102, 7691-7694.	2.6	24

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109	Roles of Interfacial Functions in Analytical Chemistry. Functions of the solid/liquid interface in the J aggregate formation processes.. Bunseki Kagaku, 1998, 47, 937-943.	0.2	1
110	Microspectroscopic Study on Dye Association at a Single Laser-Trapped Water Droplet/Oil Interface. Langmuir, 1997, 13, 1996-2000.	3.5	12
111	Optical Control of Fusion of Microparticles in Solution and Simultaneous Spectrophotometric Measurements. Analytical Chemistry, 1996, 68, 4304-4307.	6.5	8
112	Micrometer Size Effect on Dye Association in Single Laser-Trapped Water Droplets. The Journal of Physical Chemistry, 1996, 100, 1494-1497.	2.9	25
113	Laser trapping-microspectroscopy of single microparticles.. Bunseki Kagaku, 1995, 44, 977-987.	0.2	0