Tamitake Itoh

List of Publications by Year
in descending order

120	7,124	76326	58581
papers	citations	40 h-index	82 g-index

126	126	126	8046
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Between plasmonics and surface-enhanced resonant Raman spectroscopy: toward single-molecule strong coupling at a hotspot. Nanoscale, 2021, 13, 1566-1580.	5.6	27
2	All-dielectric chiral-field-enhanced Raman optical activity. Nature Communications, 2021, 12, 3062.	12.8	28
3	Propagation mechanism of surface plasmons coupled with surface-enhanced resonant Raman scattering light through a one-dimensional hotspot along a silver nanowire dimer junction. Physical Review B, 2021, 103, .	3.2	9
4	Present and Future of Surface-Enhanced Raman Scattering. ACS Nano, 2020, 14, 28-117.	14.6	2,153
5	Porous carbon nanowire array for surface-enhanced Raman spectroscopy. Nature Communications, 2020, 11, 4772.	12.8	86
6	Distinguishing Enantiomers by Tipâ€Enhanced Raman Scattering: Chemically Modified Silver Tip with an Asymmetric Atomic Arrangement. Angewandte Chemie - International Edition, 2020, 59, 14564-14569.	13.8	9
7	Anti-crossing property of strong coupling system of silver nanoparticle dimers coated with thin dye molecular films analyzed by electromagnetism. Journal of Chemical Physics, 2020, 152, 054710.	3.0	12
8	Absorption cross-section spectroscopy of a single strong-coupling system between plasmon and molecular exciton resonance using a single silver nanoparticle dimer generating surface-enhanced resonant Raman scattering. Physical Review B, 2019, 99, .	3.2	17
9	Rapid detection of hypnotics using surface-enhanced Raman scattering based on gold nanoparticle co-aggregation in a wet system. Analyst, The, 2019, 144, 2158-2165.	3.5	23
10	Rapid detection of synthetic cannabinoids in herbal highs using surface-enhanced Raman scattering produced by gold nanoparticle co-aggregation in a wet system. Analyst, The, 2019, 144, 6928-6935.	3.5	12
11	Frontiers in Electromagnetic Mechanism of SERS. , 2018, , 33-60.		2
12	Calculated shape dependence of electromagnetic field in tip-enhanced Raman scattering by using a monopole antenna model. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 197, 142-147.	3.9	4
13	Active Tuning of Strong Coupling States between Dye Excitons and Localized Surface Plasmons via Electrochemical Potential Control. ACS Photonics, 2018, 5, 788-796.	6.6	43
14	Reproduction of surface-enhanced resonant Raman scattering and fluorescence spectra of a strong coupling system composed of a single silver nanoparticle dimer and a few dye molecules. Journal of Chemical Physics, 2018, 149, 244701.	3.0	20
15	Analysis of blinking from multicoloured SERSâ€active Ag colloidal nanoaggregates with polyâ€Lâ€lysine via truncated power law. Journal of Raman Spectroscopy, 2017, 48, 570-577.	2.5	9
16	Polarization dependence of tip-enhanced Raman and plasmon-resonance Rayleigh scattering spectra. Applied Physics Letters, 2017, 110, 233104.	3.3	7
17	Measurement of pH-dependent surface-enhanced hyper-Raman scattering at desired positions on yeast cells via optical trapping. Analyst, The, 2017, 142, 3967-3974.	3.5	10
18	Strong interaction between dye molecule and electromagnetic field localized around 1 Nm3 at gaps of nanoparticle dimers by plasmon resonance. AIP Conference Proceedings, 2017, , .	0.4	0

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19	One-dimensional plasmonic hotspots located between silver nanowire dimers evaluated by surface-enhanced resonance Raman scattering. Physical Review B, 2017, 95, .	3.2	43
20	Plasmon-enhanced spectroscopy of absorption and spontaneous emissions explained using cavity quantum optics. Chemical Society Reviews, 2017, 46, 3904-3921.	38.1	113
21	Evaluation of probes for tip-enhanced Raman scattering by darkfield microspectroscopy and calculation. , 2017, , .		0
22	Near-Field Interaction between Single Molecule and an Electromagnetic Field at â€œHotspotâ€•Generated by Plasmon Resonance. ACS Symposium Series, 2016, , 23-37.	0.5	1
23	Darkfield microspectroscopy of nanostructures on silver tip-enhanced Raman scattering probes. Applied Physics Letters, 2016, 108, .	3.3	15
24	Recent topics on single-molecule fluctuation analysis using blinking in surface-enhanced resonance Raman scattering: clarification by the electromagnetic mechanism. Analyst, The, 2016, 141, 5000-5009.	3.5	42
25	Why and how do the shapes of surfaceâ€enhanced Raman scattering spectra change? Recent progress from mechanistic studies. Journal of Raman Spectroscopy, 2016, 47, 78-88.	2.5	121
26	Fluctuating single sp2 carbon clusters at single hotspots of silver nanoparticle dimers investigated by surface-enhanced resonance Raman scattering. AIP Advances, 2015, 5, .	1.3	23
27	Different behaviour of molecules in dark SERS state on colloidal Ag nanoparticles estimated by truncated power law analysis of blinking SERS. Physical Chemistry Chemical Physics, 2015, 17, 21204-21210.	2.8	18
28	SERS microscopic imaging as novel tool for assessing viability and enumerating yeast cells at various stages of cell cycle in lag, log, exponential and stationary phases of growth in culture. Journal of Experimental Nanoscience, 2014, 9, 1003-1014.	2.4	0
29	Single-molecular surface-enhanced resonance Raman scattering as a quantitative probe of local electromagnetic field: The case of strong coupling between plasmonic and excitonic resonance. Physical Review B, 2014, 89, .	3.2	53
30	Fundamental studies on enhancement and blinking mechanism of surface-enhanced Raman scattering (SERS) and basic applications of SERS biological sensing. Frontiers of Physics, 2014, 9, 31-46.	5.0	71
31	Recent progress and frontiers in the electromagnetic mechanism of surface-enhanced Raman scattering. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2014, 21, 81-104.	11.6	131
32	Tip-Enhanced Raman Scattering of the Local Nanostructure of Epitaxial Graphene Grown on 4H-SiC (0001ì...). Journal of Physical Chemistry C, 2014, 118, 25809-25815.	3.1	42
33	Tip-enhanced Raman spectroscopic measurement of stress change in the local domain of epitaxial graphene on the carbon face of 4H-SiC(000â€“1). Physical Chemistry Chemical Physics, 2014, 16, 20236-20240.	2.8	28
34	A simple method for evaluation of optical scattering effect on the Raman signal of a sample beneath an Intralipid layer. Vibrational Spectroscopy, 2014, 74, 132-136.	2.2	1
35	Cu, Mn doping effect to optical behavior and electronic structure of ZnO ceramic. Journal of Physics and Chemistry of Solids, 2013, 74, 1127-1130.	4.0	10
36	Direct conversion of silver complexes to nanoscale hexagonal columns on a copper alloy for plasmonic applications. Physical Chemistry Chemical Physics, 2013, 15, 14611.	2.8	39

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37	A study on the interaction of single-walled carbon nanotubes (SWCNTs) and polystyrene (PS) at the interface in SWCNTâ€“PS nanocomposites using tip-enhanced Raman spectroscopy. Physical Chemistry Chemical Physics, 2013, 15, 20618.	2.8	40
38	Surface-Enhanced Phosphorescence Measurement by an Optically Trapped Colloidal Ag Nanoaggregate on Anionic Thiacarbocyanine H-Aggregate. Journal of Physical Chemistry C, 2013, 117, 2460-2466.	3.1	3
39	Temperature near Gold Nanoparticles under Photoexcitation: Evaluation Using a Fluorescence Correlation Technique. Journal of Physical Chemistry C, 2013, 117, 8388-8396.	3.1	19
40	Tip-Enhanced Raman Spectroscopy Study of Local Interactions at the Interface of Styreneâ€“Butadiene Rubber/Multiwalled Carbon Nanotube Nanocomposites. Journal of Physical Chemistry C, 2013, 117, 1436-1440.	3.1	39
41	Plasmonic Imaging of Brownian Motion of Single DNA Molecules Spontaneously Binding to Ag Nanoparticles. Nano Letters, 2013, 13, 1877-1882.	9.1	14
42	Plasmonic staining of DNA molecules with photo-induced Ag nanoparticles monitored using dark-field microscopy. Physical Chemistry Chemical Physics, 2013, 15, 10316.	2.8	9
43	Truncated Power Law Analysis of Blinking SERS of Thiacyanine Molecules Adsorbed on Single Silver Nanoaggregates by Excitation at Various Wavelengths. Journal of Physical Chemistry C, 2013, 117, 9397-9403.	3.1	17
44	Excitation laser energy dependence of surface-enhanced fluorescence showing plasmon-induced ultrafast electronic dynamics in dye molecules. Physical Review B, 2013, 87, .	3.2	39
45	Selective Optical Assembly of Highly Uniform Nanoparticles by Doughnut-Shaped Beams. Scientific Reports, 2013, 3, 3047.	3.3	47
46	Development of thin-film tunable band-pass filters based hyper-spectral imaging system applied for both surface enhanced Raman scattering and plasmon resonance Rayleigh scattering. Review of Scientific Instruments, 2012, 83, 103707.	1.3	9
47	Quantitative evaluation of blinking in surface enhanced resonance Raman scattering and fluorescence by electromagnetic mechanism. Journal of Chemical Physics, 2012, 136, 024703.	3.0	72
48	Biological Applications of SERS Using Functional Nanoparticles. ACS Symposium Series, 2012, , 181-234.	0.5	7
49	A Raman Spectroscopy Study on Single-Wall Carbon Nanotube/Polystyrene Nanocomposites: Mechanical Compression Transferred from the Polymer to Single-Wall Carbon Nanotubes. Journal of Physical Chemistry C, 2012, 116, 17897-17903.	3.1	46
50	FRET from Quantum Dots to Photodecompose Undesired Acceptors and Report the Condensation and Decondensation of Plasmid DNA. ACS Nano, 2012, 6, 3776-3788.	14.6	61
51	Inhibition Assay of Yeast Cell Walls by Plasmon Resonance Rayleigh Scattering and Surface-Enhanced Raman Scattering Imaging. Langmuir, 2012, 28, 8952-8958.	3.5	19
52	Laser heating effect on Raman spectra of styreneâ€“butadiene rubber/multiwalled carbon nanotube nanocomposites. Chemical Physics Letters, 2012, 523, 87-91.	2.6	22
53	Power-law analysis of surface-plasmon-enhanced electromagnetic field dependence of blinking SERS of thiacyanine or thiacarbocyanine adsorbed on single silver nanoaggregates. Physical Chemistry Chemical Physics, 2011, 13, 7439.	2.8	24
54	Analysis of excitation laser intensity dependence of blinking SERRS of thiacarbocyanine adsorbed on single silver nanoaggregates by using a power law with an exponential function. Chemical Communications, 2011, 47, 3888.	4.1	13

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55	Surface-Enhanced Raman Scattering from Photoreduced Ag Nanoaggregates on an Optically Trapped Single Bacterium. Bulletin of the Chemical Society of Japan, 2011, 84, 976-978.	3.2	9
56	Single-molecule photochemical reactions of Auger-ionized quantum dots. Nano Reviews, 2011, 2, 6366.	3.7	6
57	Experimental demonstration of the electromagnetic mechanism underlying surface enhanced Raman scattering using single nanoparticle spectroscopy. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 219, 167-179.	3.9	14
58	Surface enhanced Raman scattering spectroscopy of Ag nanoparticle aggregates directly photo-reduced on pathogenic bacterium (Helicobacter pylori). Journal of Photochemistry and Photobiology A: Chemistry, 2011, 221, 181-186.	3.9	11
59	Highly Sensitive Detection of Monosaccharides on Microchip Electrophoresis Using pH Discontinuous Solution System. Analytical Sciences, 2010, 26, 731-736.	1.6	2
60	Reversible Dimerization of EGFR Revealed by Singleâ€Molecule Fluorescence Imaging Using Quantum Dots. Chemistry - A European Journal, 2010, 16, 1186-1192.	3.3	75
61	Inside Cover: Reversible Dimerization of EGFR Revealed by Single-Molecule Fluorescence Imaging Using Quantum Dots (Chem. Eur. J. 4/2010). Chemistry - A European Journal, 2010, 16, 1088-1088.	3.3	0
62	Difference in time dependence of surface-enhanced Raman scattering spectra of thiacarbocyanine J- and H-aggregates adsorbed on single silver nanoaggregates. Chemical Physics Letters, 2010, 493, 309-313.	2.6	12
63	Quantitative evaluation of electromagnetic enhancement in surface-enhanced resonance Raman scattering from plasmonic properties and morphologies of individual Ag nanostructures. Physical Review B, 2010, 81, .	3.2	152
64	Spectral variations in background light emission of surface-enhanced resonance hyper Raman scattering coupled with plasma resonance of individual silver nanoaggregates. Journal of Chemical Physics, 2010, 133, 124704.	3.0	12
65	Blinking of SERRS Excited by Various Laser Intensities. , 2010, , .		0
66	Selective Detection of HbA1c Using Surface Enhanced Resonance Raman Spectroscopy. Analytical Chemistry, 2010, 82, 1342-1348.	6.5	75
67	Delivering quantum dots to cells: bioconjugated quantum dots for targeted and nonspecific extracellular and intracellular imaging. Chemical Society Reviews, 2010, 39, 3031.	38.1	338
68	Blinking Suppression in CdSe/ZnS Single Quantum Dots by TiO₂ Nanoparticles. ACS Nano, 2010, 4, 4445-4454.	14.6	75
69	Power-law statistics in blinking SERS of thiacyanine adsorbed on a single silver nanoaggregate. Physical Chemistry Chemical Physics, 2010, 12, 7457.	2.8	27
70	Experimental evaluation of the twofold electromagnetic enhancement theory of surface-enhanced resonance Raman scattering. Physical Review B, 2009, 79, .	3.2	75
71	Optical force enhanced by plasmon resonance allowing position-sensitive synthesis and immobilization of single Ag nanoparticles on glass surfaces. Applied Physics Letters, 2009, 94, .	3.3	10
72	Spectral shapes of surface-enhanced resonance Raman scattering sensitive to the refractive index of media around single Ag nanoaggregates. Applied Physics Letters, 2009, 95, .	3.3	24

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73	Evaluation of electromagnetic enhancement of surface enhanced hyper Raman scattering using plasmonic properties of binary active sites in single Ag nanoaggregates. Journal of Chemical Physics, 2009, 130, 214706.	3.0	38
74	Ionic Liquids on Photoinduced Nanotube Composite Arrays as a Reaction Medium. Chemistry - A European Journal, 2009, 15, 7520-7525.	3.3	8
75	Imaging the cell wall of living single yeast cells using surface-enhanced Raman spectroscopy. Analytical and Bioanalytical Chemistry, 2009, 394, 1803-1809.	3.7	63
76	Clathrin-Mediated Endocytosis of Quantum Dotâ^'Peptide Conjugates in Living Cells. ACS Nano, 2009, 3, 2419-2429.	14.6	100
77	Surface Plasmon Excitation and Surface-Enhanced Raman Scattering Using Two-Dimensionally Close-Packed Gold Nanoparticles. Journal of Physical Chemistry C, 2009, 113, 11689-11694.	3.1	24
78	Wavelength-Dependent Surface-Enhanced Resonance Raman Scattering by Excitation of a Transverse Localized Surface Plasmon. Journal of Physical Chemistry C, 2009, 113, 11877-11883.	3.1	5
79	Laser-induced self-assembly of silver nanoparticles via plasmonic interactions. Optics Express, 2009, 17, 18760.	3.4	49
80	SERRS fiber probe: fabrication of silver nanoparticles at the aperture of an optical fiber used for SNOM. Chemical Communications, 2009, , 6563.	4.1	9
81	Protein-Mediated Sandwich Strategy for Surface-Enhanced Raman Scattering: Application to Versatile Protein Detection. Analytical Chemistry, 2009, 81, 3350-3355.	6.5	112
82	Surface-Enhanced Raman Scattering Spectroscopy. , 2009, , 289-319.		9
83	Surface Enhanced Raman Scattering from Pseudoisocyanine on Ag Nanoaggregates Produced by Optical Trapping with a Linearly Polarized Laser Beam. Journal of Physical Chemistry C, 2009, 113, 11856-11860.	3.1	37
84	Time-resolved Surface-enhanced Resonance Raman Scattering Spectra of Thiacyanine Molecules in Water. Chemistry Letters, 2009, 38, 54-55.	1.3	11
85	Identification of Thiacyanine J-aggregates Adsorbed on Single Silver Nanoaggregates by Surface-Enhanced Raman Scattering and Emission Spectroscopy. Bulletin of the Chemical Society of Japan, 2009, 82, 1126-1132.	3.2	13
86	Semiconductor quantum dots and metal nanoparticles: syntheses, optical properties, and biological applications. Analytical and Bioanalytical Chemistry, 2008, 391, 2469-2495.	3.7	469
87	Surface enhanced Raman scattering analyses of individual silver nanoaggregates on living single yeast cell wall. Applied Physics Letters, 2008, 92, .	3.3	53
88	Photoluminescence Quenching and Intensity Fluctuations of CdSeâ^'ZnS Quantum Dots on an Ag Nanoparticle Film. Journal of Physical Chemistry C, 2008, 112, 1345-1350.	3.1	77
89	Photosensitized Breakage and Damage of DNA by CdSeâ^'ZnS Quantum Dots. Journal of Physical Chemistry B, 2008, 112, 10005-10011.	2.6	143
90	Relations between Dewetting of Polymer Thin Films and Phase-Separation of Encompassed Quantum Dots. Journal of Physical Chemistry C, 2008, 112, 8184-8191.	3.1	22

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91	Interaction between metal-free porphine and surface Ag atoms through temporal fluctuation of surface-enhanced resonance raman scattering and background-light emission. Handai Nanophotonics, 2007, 3, 161-174.	0.0	0
92	Quantum dot-Insect Neuropeptide Conjugates for Fluorescence Imaging, Transfection, and Nucleus Targeting of Living Cells. Langmuir, 2007, 23, 10254-10261.	3.5	101
93	Photoinduced Photoluminescence Variations of CdSe Quantum Dots in Polymer Solutions. Journal of Physical Chemistry C, 2007, 111, 7924-7932.	3.1	84
94	Second enhancement in surface-enhanced resonance Raman scattering revealed by an analysis of anti-Stokes and Stokes Raman spectra. Physical Review B, 2007, 76, .	3.2	112
95	Quenching of Photoluminescence in Conjugates of Quantum Dots and Single-Walled Carbon Nanotube. Journal of Physical Chemistry B, 2006, 110, 26068-26074.	2.6	133
96	Variations in Steady-State and Time-Resolved Background Luminescence from Surface-Enhanced Resonance Raman Scattering-Active Single Ag Nanoaggregates. Journal of Physical Chemistry B, 2006, 110, 21536-21544.	2.6	43
97	Elucidation of Interaction between Metal-Free Tetraphenylporphine and Surface Ag Atoms through Temporal Fluctuation of Surface-Enhanced Resonance Raman Scattering and Background-Light Emission. Journal of Physical Chemistry B, 2006, 110, 9579-9585.	2.6	32
98	Quantitative Analyses of Absorption-Sensitive Surface Plasmon Resonance Near-Infrared Spectra. Applied Spectroscopy, 2006, 60, 747-751.	2.2	8
99	Classification of single-molecule surface-enhanced resonance Raman spectra of Rhodamine 6G from isolated Ag colloidal particles by principal component analysis. Vibrational Spectroscopy, 2006, 40, 184-191.	2.2	10
100	Correlated measurements of plasmon resonance Rayleigh scattering and surface-enhanced resonance Raman scattering using a dark-field microspectroscopic system. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 183, 322-328.	3.9	41
101	Close-conjugation of quantum dots and gold nanoparticles to sidewall functionalized single-walled carbon nanotube templates. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 183, 315-321.	3.9	15
102	Fabrication of a quantum dot-polymer matrix by layer-by-layer conjugation. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 183, 285-291.	3.9	21
103	Surface-enhanced resonance Raman scattering and background light emission coupled with plasmon of single Ag nanoaggregates. Journal of Chemical Physics, 2006, 124, 134708.	3.0	103
104	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.	3.3	53
105	Title is missing!. ScienceAsia, 2006, 32, 261.	0.5	6
106	Effects of a central metal on the organization of 5,10,15,20-tetra-(p-chlorophenyl)â€“rare earth porphyrin hydroxyl compound at the air/water interface and in Langmuirâ€“Blodgett films. Journal of Colloid and Interface Science, 2005, 284, 582-592.	9.4	9
107	Detailed analysis of single-molecule surface-enhanced resonance Raman scattering spectra of Rhodamine 6G obtained from isolated nano-aggregates of colloidal silver. Journal of Raman Spectroscopy, 2005, 36, 593-599.	2.5	43
108	Changes in excitation profiles of surface-enhanced resonance Raman scattering induced by changes in surface plasmon resonance of single Ag nano-aggregates. Chemical Physics Letters, 2004, 389, 225-229.	2.6	39

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109	Surface Plasmon Resonance Near-Infrared Spectroscopy. Analytical Chemistry, 2004, 76, 6461-6469.	6.5	37
110	Direct demonstration for changes in surface plasmon resonance induced by surface-enhanced Raman scattering quenching of dye molecules adsorbed on single Ag nanoparticles. Applied Physics Letters, 2003, 83, 5557-5559.	3.3	57
111	Polarization dependences of surface plasmon bands and surface-enhanced Raman bands of single Ag nanoparticles. Applied Physics Letters, 2003, 83, 2274-2276.	3.3	91
112	High sensitive detection of near-infrared absorption by surface plasmon resonance. Applied Physics Letters, 2003, 83, 2232-2234.	3.3	23
113	Direct Demonstration of Environment-Sensitive Surface Plasmon Resonance Band in Single Gold Nanoparticles. Japanese Journal of Applied Physics, 2002, 41, L76-L78.	1.5	25
114	Femtosecond light scattering spectroscopy of single gold nanoparticles. Applied Physics Letters, 2001, 79, 1667-1669.	3.3	81
115	Time-resolved ultravioletâ€“visible absorption spectroscopic study on femtosecond KrF laser ablation of liquid benzyl chloride. Chemical Physics Letters, 1999, 300, 727-733.	2.6	9
116	Femtosecond Laser Ablation of Liquid Toluene: Molecular Mechanism Studied by Time-Resolved Absorption Spectroscopy. Journal of Physical Chemistry A, 1999, 103, 11257-11263.	2.5	13
117	Time-resolved surface scattering imaging of organic liquids under femtosecond KrF laser pulse excitation. Applied Physics Letters, 1998, 73, 3498-3500.	3.3	19
118	All-Solid-State Mirror-Dispersion-Controlled Sub-10 fs Ti:Sapphire Laser. Japanese Journal of Applied Physics, 1996, 35, L989-L991.	1.5	2
119	Extremely Fast-Response, Highly Nonlinear Doped-Silica Single-Mode Fibers. Japanese Journal of Applied Physics, 1996, 35, L1107-L1110.	1.5	4
120	Nanohole Processing of Polymer Films Based on the Laser-Induced Superheating of Au Nanoparticles. Applied Physics Express, 0, 1, 087001.	2.4	22