Atsushi Taguchi

List of Publications by Year
in descending order

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42	1,480	331670 21	395702 33
papers	citations	h-index	g-index

42	42	42	2021
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tip-enhanced Raman spectroscopy â€“ from early developments to recent advances. Chemical Society Reviews, 2017, 46, 4077-4110.	38.1	185
2	Deepâ€UV tipâ€enhanced Raman scattering. Journal of Raman Spectroscopy, 2009, 40, 1324-1330.	2.5	165
3	Tailoring plasmon resonances in the deep-ultraviolet by size-tunable fabrication of aluminum nanostructures. Applied Physics Letters, 2012, 101, 081110.	3.3	133
4	Nano-Raman Scattering Microscopy: Resolution and Enhancement. Chemical Reviews, 2017, 117, 4983-5001.	47.7	80
5	Optical antennas with multiple plasmonic nanoparticles for tip-enhanced Raman microscopy. Nanoscale, 2015, 7, 17424-17433.	5.6	79
6	Plasmon-enhanced UV photocatalysis. Applied Physics Letters, 2014, 104, .	3.3	78
7	Time-resolved observation of surface-enhanced Raman scattering from gold nanoparticles during transport through a living cell. Journal of Biomedical Optics, 2009, 14, 024038.	2.6	74
8	Indium for Deep-Ultraviolet Surface-Enhanced Resonance Raman Scattering. ACS Photonics, 2014, 1, 598-603.	6.6	67
9	Controlling the plasmon resonance wavelength in metal-coated probe using refractive index modification. Optics Express, 2009, 17, 6509.	3.4	57
10	Quantitative Evaluation of Surface-Enhanced Raman Scattering Nanoparticles for Intracellular pH Sensing at a Single Particle Level. Analytical Chemistry, 2019, 91, 3254-3262.	6.5	57
11	Optical antennas for tunable enhancement in tip-enhanced Raman spectroscopy imaging. Applied Physics Express, 2015, 8, 032401.	2.4	56
12	Confinement of enhanced field investigated by tip-sample gap regulation in tapping-mode tip-enhanced Raman microscopy. Applied Physics Letters, 2007, 91, .	3.3	51
13	Deep ultraviolet resonant Raman imaging of a cell. Journal of Biomedical Optics, 2012, 17, 0760011.	2.6	49
14	Deep UV resonant Raman spectroscopy for photodamage characterization in cells. Biomedical Optics Express, 2011, 2, 927.	2.9	44
15	Deepâ€Ultraviolet Biomolecular Imaging and Analysis. Advanced Optical Materials, 2019, 7, 1801099.	7.3	39
16	Oxygen-assisted shape control in polyol synthesis of silver nanocrystals. Chemical Physics Letters, 2008, 462, 92-95.	2.6	37
17	Efficient UV photocatalysis assisted by densely distributed aluminum nanoparticles. Journal Physics D: Applied Physics, 2015, 48, 184006.	2.8	26
18	Tip-enhanced two-photon excited fluorescence microscopy with a silicon tip. Applied Physics Letters, 2009, 94, .	3.3	25

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19	Optical 3D profilometer for in-process measurement of microsurface based on phase retrieval technique. Precision Engineering, 2004, 28, 152-163.	3.4	23
20	Au-Protected Ag Core/Satellite Nanoassemblies for Excellent Extra-/Intracellular Surface-Enhanced Raman Scattering Activity. ACS Applied Materials & Interfaces, 2017, 9, 44027-44037.	8.0	23
21	Focused Excitation of Surface Plasmon Polaritons Based on Gap-Mode in Tip-Enhanced Spectroscopy. Japanese Journal of Applied Physics, 2007, 46, 7995.	1.5	21
22	One-photon and two-photon excited fluorescence microscopies based on polarization-control: Applications to tip-enhanced microscopy. Journal of Applied Physics, 2009, 106, .	2.5	18
23	Multiphoton-Excited Deep-Ultraviolet Photolithography for 3D Nanofabrication. ACS Applied Nano Materials, 2020, 3, 11434-11441.	5.0	16
24	Plasmonic tip for nano Raman microcopy: structures, materials, and enhancement. Optical Review, 2017, 24, 462-469.	2.0	10
25	Development of Tip-Enhanced Near-Field Optical Spectroscopy and Microscopy. Japanese Journal of Applied Physics, 2009, 48, 08JA02.	1.5	9
26	Design of Aluminum Nanostructures for DUV Plasmonics: Blue Shifts in Plasmon Resonance Wavelength by Height Control. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2013, 77, 27-31.	0.4	9
27	Detection of acid moisture in photovoltaic modules using a dual wavelength pH-sensitive fluorescent dye. Japanese Journal of Applied Physics, 2014, 53, 04ER18.	1.5	9
28	Active Control of the Oxidization of a Silicon Cantilever for the Characterization of Silicon-based Semiconductors. Chemistry Letters, 2008, 37, 122-123.	1.3	8
29	Photoinitiatorâ€Free Twoâ€Photon Polymerization of Biocompatible Materials for 3D Micro/Nanofabrication. Advanced Optical Materials, 2022, 10, .	7.3	7
30	Broad band infrared near-field spectroscopy at finger print region using SPring-8. Infrared Physics and Technology, 2008, 51, 417-419.	2.9	6
31	3D Micro-Profile Measurement using Optical Inverse Scattering Phase Method. CIRP Annals - Manufacturing Technology, 2000, 49, 423-426.	3.6	4
32	Simple and Versatile Route to High Yield Face-to-Face Dimeric Assembly of Ag Nanocubes and Their Surface Plasmonic Properties. Journal of Nanoscience and Nanotechnology, 2011, 11, 2890-2896.	0.9	4
33	Tip-Enhanced Raman Spectroscopy. , 2012, , 445-476.		4
34	Temperature-dependent Photodegradation in UV-resonance Raman Spectroscopy. Analytical Sciences, 2015, 31, 451-454.	1.6	3
35	Deep-Ultraviolet Surface- and Tip-Enhanced Raman Spectroscopy. , 2018, , 117-135.		2
36	Deep-Ultraviolet Surface-Enhanced Raman Scattering. , 2015, , 145-158.		2

#	Article	IF	Citations
37	DUV Tip-Enhancement in Resonance Raman Scattering using Aluminum Probes. , 2010, , .		0
38	Deep-UV plasmonics of indium (Conference Presentation). , 2016, , .		0
39	Correlative force and tip-enhanced Raman microscopy. APL Photonics, 2019, 4, 021301.	5.7	0
40	Tip Enhanced Raman Microscopy. , 2019, , 13-32.		0
41	UV Plasmonics and Nanophotonics. Journal of the Japan Society for Precision Engineering, 2021, 87, 725-729.	0.1	0
42	Deep-UV Raman Microscopy: Development and Application to Bioimaging. The Review of Laser Engineering, 2015, 43, 683.	0.0	0