

# Atsushi Taguchi

## List of Publications by Year in descending order

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42  
papers

1,480  
citations

331670

21  
h-index

395702

33  
g-index

42  
all docs

42  
docs citations

42  
times ranked

2021  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoinitiator-Free Two-Photon Polymerization of Biocompatible Materials for 3D Micro/Nanofabrication. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	7
2	UV Plasmonics and Nanophotonics. <i>Journal of the Japan Society for Precision Engineering</i> , 2021, 87, 725-729.	0.1	0
3	Multiphoton-Excited Deep-Ultraviolet Photolithography for 3D Nanofabrication. <i>ACS Applied Nano Materials</i> , 2020, 3, 11434-11441.	5.0	16
4	Quantitative Evaluation of Surface-Enhanced Raman Scattering Nanoparticles for Intracellular pH Sensing at a Single Particle Level. <i>Analytical Chemistry</i> , 2019, 91, 3254-3262.	6.5	57
5	Correlative force and tip-enhanced Raman microscopy. <i>APL Photonics</i> , 2019, 4, 021301.	5.7	0
6	Deep-Ultraviolet Biomolecular Imaging and Analysis. <i>Advanced Optical Materials</i> , 2019, 7, 1801099.	7.3	39
7	Tip Enhanced Raman Microscopy. , 2019, , 13-32.		0
8	Deep-Ultraviolet Surface- and Tip-Enhanced Raman Spectroscopy. , 2018, , 117-135.		2
9	Plasmonic tip for nano Raman microcopy: structures, materials, and enhancement. <i>Optical Review</i> , 2017, 24, 462-469.	2.0	10
10	Tip-enhanced Raman spectroscopy “ from early developments to recent advances. <i>Chemical Society Reviews</i> , 2017, 46, 4077-4110.	38.1	185
11	Nano-Raman Scattering Microscopy: Resolution and Enhancement. <i>Chemical Reviews</i> , 2017, 117, 4983-5001.	47.7	80
12	Au-Protected Ag Core/Satellite Nanoassemblies for Excellent Extra-/Intracellular Surface-Enhanced Raman Scattering Activity. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 44027-44037.	8.0	23
13	Deep-UV plasmonics of indium (Conference Presentation). , 2016, , .		0
14	Temperature-dependent Photodegradation in UV-resonance Raman Spectroscopy. <i>Analytical Sciences</i> , 2015, 31, 451-454.	1.6	3
15	Optical antennas for tunable enhancement in tip-enhanced Raman spectroscopy imaging. <i>Applied Physics Express</i> , 2015, 8, 032401.	2.4	56
16	Optical antennas with multiple plasmonic nanoparticles for tip-enhanced Raman microscopy. <i>Nanoscale</i> , 2015, 7, 17424-17433.	5.6	79
17	Efficient UV photocatalysis assisted by densely distributed aluminum nanoparticles. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 184006.	2.8	26
18	Deep-Ultraviolet Surface-Enhanced Raman Scattering. , 2015, , 145-158.		2

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19	Deep-UV Raman Microscopy: Development and Application to Bioimaging. The Review of Laser Engineering, 2015, 43, 683.	0.0	0
20	Plasmon-enhanced UV photocatalysis. Applied Physics Letters, 2014, 104, .	3.3	78
21	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
22	Indium for Deep-Ultraviolet Surface-Enhanced Resonance Raman Scattering. ACS Photonics, 2014, 1, 598-603.	6.6	67
23	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
24	Deep ultraviolet resonant Raman imaging of a cell. Journal of Biomedical Optics, 2012, 17, 0760011.	2.6	49
25	Tailoring plasmon resonances in the deep-ultraviolet by size-tunable fabrication of aluminum nanostructures. Applied Physics Letters, 2012, 101, 081110.	3.3	133
26	Tip-Enhanced Raman Spectroscopy. , 2012, , 445-476.		4
27	Deep UV resonant Raman spectroscopy for photodamage characterization in cells. Biomedical Optics Express, 2011, 2, 927.	2.9	44
28	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
29	DUV Tip-Enhancement in Resonance Raman Scattering using Aluminum Probes. , 2010, , .		0
30	Tip-enhanced two-photon excited fluorescence microscopy with a silicon tip. Applied Physics Letters, 2009, 94, .	3.3	25
31	Development of Tip-Enhanced Near-Field Optical Spectroscopy and Microscopy. Japanese Journal of Applied Physics, 2009, 48, 08JA02.	1.5	9
32	Deep-UV tip-enhanced Raman scattering. Journal of Raman Spectroscopy, 2009, 40, 1324-1330.	2.5	165
33	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
34	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
35	Controlling the plasmon resonance wavelength in metal-coated probe using refractive index modification. Optics Express, 2009, 17, 6509.	3.4	57
36	Oxygen-assisted shape control in polyol synthesis of silver nanocrystals. Chemical Physics Letters, 2008, 462, 92-95.	2.6	37

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37	Broad band infrared near-field spectroscopy at finger print region using SPring-8. <i>Infrared Physics and Technology</i> , 2008, 51, 417-419.	2.9	6
38	Active Control of the Oxidization of a Silicon Cantilever for the Characterization of Silicon-based Semiconductors. <i>Chemistry Letters</i> , 2008, 37, 122-123.	1.3	8
39	Confinement of enhanced field investigated by tip-sample gap regulation in tapping-mode tip-enhanced Raman microscopy. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	51
40	Focused Excitation of Surface Plasmon Polaritons Based on Gap-Mode in Tip-Enhanced Spectroscopy. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 7995.	1.5	21
41	Optical 3D profilometer for in-process measurement of microsurface based on phase retrieval technique. <i>Precision Engineering</i> , 2004, 28, 152-163.	3.4	23
42	3D Micro-Profile Measurement using Optical Inverse Scattering Phase Method. <i>CIRP Annals - Manufacturing Technology</i> , 2000, 49, 423-426.	3.6	4