

# Satoshi Tomita

## List of Publications by Year in descending order

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62  
papers

1,639  
citations

279487

23  
h-index

288905

40  
g-index

62  
all docs

62  
docs citations

62  
times ranked

1947  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure and electronic properties of carbon onions. Journal of Chemical Physics, 2001, 114, 7477-7482.	1.2	202
2	Diamond nanoparticles to carbon onions transformation: X-ray diffraction studies. Carbon, 2002, 40, 1469-1474.	5.4	184
3	Magneto-Optical Kerr Effects of Yttrium-Iron Garnet Thin Films Incorporating Gold Nanoparticles. Physical Review Letters, 2006, 96, 167402.	2.9	117
4	Electron energy-loss spectroscopy of carbon onions. Chemical Physics Letters, 1999, 305, 225-229.	1.2	94
5	Hollow organic globules in the Tagish Lake meteorite as possible products of primitive organic reactions. International Journal of Astrobiology, 2002, 1, 179-189.	0.9	82
6	A new and simple method for thin graphitic coating of magnetic-metal nanoparticles. Chemical Physics Letters, 2000, 316, 361-364.	1.2	71
7	Controlling Interparticle Spacing among Metal Nanoparticles through Metal-Catalyzed Decomposition of Surrounding Polymer Matrix. Journal of the American Chemical Society, 2005, 127, 7980-7981.	6.6	65
8	Chiral meta-molecules consisting of gold nanoparticles and genetically engineered tobacco mosaic virus. Optics Express, 2012, 20, 24856.	1.7	64
9	Optical extinction properties of carbon onions prepared from diamond nanoparticles. Physical Review B, 2002, 66, .	1.1	60
10	Direct Observation of Magnetochiral Effects through a Single Metamolecule in Microwave Regions. Physical Review Letters, 2014, 113, 235501.	2.9	47
11	Gold Nanoparticle-Induced Formation of Artificial Protein Capsids. Nano Letters, 2012, 12, 2056-2059.	4.5	42
12	Transformation of carbon onions to diamond by low-temperature heat treatment in air. Diamond and Related Materials, 2000, 9, 856-860.	1.8	41
13	Tuning magnetic interactions in ferromagnetic-metal nanoparticle systems. Physical Review B, 2005, 71, .	1.1	36
14	Transformation of nano-diamonds to carbon nano-onions studied by X-ray diffraction and molecular dynamics. Diamond and Related Materials, 2011, 20, 1333-1339.	1.8	33
15	Formation of Co filled carbon nanocapsules by metal-template graphitization of diamond nanoparticles. Journal of Applied Physics, 2000, 88, 5452-5456.	1.1	32
16	Negative permeability of magnetic nanocomposite films for designing left-handed metamaterials. Applied Physics Letters, 2007, 91, .	1.5	29
17	Structural studies of nanodiamond by high-energy X-ray diffraction. Diamond and Related Materials, 2008, 17, 1186-1193.	1.8	29
18	Thin Films of Carbon Nanocapsules and Onion-Like Graphitic Particles Prepared by the Cosputtering Method. Japanese Journal of Applied Physics, 2000, 39, 6680-6683.	0.8	28

#	ARTICLE	IF	CITATIONS
19	Ferromagnetic resonance study of diluted Fe nanogranular films. Journal of Applied Physics, 2004, 95, 8194-8198.	1.1	27
20	Controlled magnetic properties of Ni nanoparticles embedded in polyimide films. Physical Review B, 2007, 76, .	1.1	26
21	Resonant photon tunneling via surface plasmon polaritons through one-dimensional metal-dielectric metamaterials. Optics Express, 2008, 16, 9942.	1.7	26
22	Nanocomposite Polymeric Microspheres Containing Ni Nanoparticles with Controlled Microstructures. Chemistry of Materials, 2008, 20, 3042-3047.	3.2	26
23	Metamaterials with magnetism and chirality. Journal Physics D: Applied Physics, 2018, 51, 083001.	1.3	25
24	Gas-phase production of monodisperse lead zirconate titanate nanoparticles. Applied Physics Letters, 2002, 81, 1893-1895.	1.5	24
25	Defective Carbon Onions in Interstellar Space as the Origin of the Optical Extinction Bump at 217.5 Nanometers. Astrophysical Journal, 2004, 609, 220-224.	1.6	22
26	Electron magnetic resonance in interacting ferromagnetic-metal nanoparticle systems: experiment and numerical simulation. Journal of Physics Condensed Matter, 2010, 22, 016005.	0.7	16
27	Dye-doped polymer microring laser coupled with stimulated resonant Raman scattering. Applied Physics Letters, 2009, 95, 033306.	1.5	15
28	Enhanced magnetochiral effects at microwave frequencies by a single metamolecule. Physical Review B, 2017, 95, .	1.1	15
29	Lifetime reduction of a quantum emitter with quasiperiodic metamaterials. Physical Review B, 2014, 90, .	1.1	12
30	Fabrication and characterization of PAN-derived carbon thin films containing Au nanoparticles. Thin Solid Films, 2002, 408, 59-63.	0.8	11
31	Organic photovoltaic cells with onion-like carbon thin films as hole collection layers. Thin Solid Films, 2018, 654, 69-76.	0.8	11
32	Resonant photon transport through metal-insulator-metal multilayers consisting of Ag and $\text{SiO}_2$ . Physical Review B, 2010, 82, .	1.1	10
33	Control of Gilbert damping using magnetic metamaterials. Physical Review B, 2011, 84, .	1.1	10
34	Chiral meta-interface: Polarity reversal of ellipticity through double layers consisting of transparent chiral and absorptive achiral media. Physical Review B, 2013, 87, .	1.1	10
35	Enhanced magneto-optical Kerr effects in Py/Ag/Bi trilayers. Journal Physics D: Applied Physics, 2017, 50, 19LT01.	1.3	10
36	Ferromagnetic Resonance of a Single Magnetochiral Metamolecule of Permalloy. Physical Review Applied, 2016, 6, .	1.5	9

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37	Spectroscopic Ellipsometry of Yttrium-iron Garnet Thin Films Containing Gold Nanoparticles. Japanese Journal of Applied Physics, 2007, 46, L1032-L1034.	0.8	7
38	Surface-emitting dye-doped polymer laser coupled with stimulated resonant Raman scattering. Applied Physics Letters, 2010, 96, .	1.5	7
39	Terahertz wave emission from plasmonic chiral metasurfaces. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	7
40	Magnetic Properties of Fibonacci-Modulated Fe-Au Multilayer Metamaterials. Materials, 2017, 10, 1209.	1.3	7
41	Plasmonic circular dichroism using Au fine particles and riboflavin. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 2529-2532.	0.8	6
42	Light Amplification Induced by Stimulated Resonance Raman Scattering in Poly(phenylene vinylene) Thin Films. Japanese Journal of Applied Physics, 2008, 47, 1188-1191.	0.8	5
43	Photoluminescence from Donor-Acceptor Molecular Systems via Long Distance Energy Transfer Mediated by Surface Plasmons. Japanese Journal of Applied Physics, 2009, 48, 042001.	0.8	5
44	Fabrication and ferromagnetic resonance of cobalt chiral meta-molecule arrays. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	5
45	Microwave analog of Stern-Gerlach effects using nonuniform chiral metamaterials. Physical Review B, 2017, 96, .	1.1	4
46	Microwave Spectroscopy of a Single Permalloy Chiral Metamolecule on a Coplanar Waveguide. Physical Review Applied, 2018, 9, .	1.5	4
47	Ni <sub>1-x</sub> Co <sub>x</sub> -C Nanogranular Thin Films Prepared by a Co-Sputtering Method: Improvement in Magnetic Properties by Optimizing the Alloy Ratio. Japanese Journal of Applied Physics, 2001, 40, 6370-6374.	0.8	3
48	Distributed feedback lasing coupled with stimulated resonant Raman scattering in polyphenylenevinylene films. Synthetic Metals, 2009, 159, 802-804.	2.1	3
49	Fabrication of Carbon Nanotube/Zinc Oxide Composite Films by Electrodeposition. Japanese Journal of Applied Physics, 2011, 50, 085504.	0.8	3
50	Observation of asymmetric electromagnetic field profiles in chiral metamaterials. Physical Review B, 2018, 97, .	1.1	3
51	Enhanced Magneto-Optical Activities of Modulated $\text{Fe/Pt}$ Multilayer Metamaterials. Physical Review Applied, 2019, 11, 044001.	1.5	3
52	A Novel Fabrication Technique for Interacting Ferromagnetic-metal Nanoparticle Systems: Fine-tuning of Particle Diameter and Interparticle Spacing. Materials Research Society Symposia Proceedings, 2004, 853, 1.	0.1	1
53	Loss monitoring in resonant photon tunneling through metal and dielectric multi-layer metamaterials. , 2009, , .		1
54	Optical properties of dye-doped polymer films incorporating photonic nanostructures. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 2485-2488.	0.8	1

#	ARTICLE	IF	CITATIONS
55	Simple Analysis for Frequency Increase in Spin Torque Oscillation. IEEE Transactions on Magnetics, 2012, 48, 3955-3957.	1.2	1
56	Magneto-chiral Metamolecules for Microwaves. Springer Series in Materials Science, 2019, , 219-234.	0.4	1
57	Biotemplates and Their Application to Electronic Devices. , 2016, , 119-143.		1
58	Spectroscopic Ellipsometry and Magneto-Optical Kerr Spectroscopy of Magnetic Garnet Thin Films Incorporating Plasmonic Nanoparticles. , 2013, , 325-339.		0
59	Terahertz Signal Measurement on a Chiral Metamaterial Using Terahertz Emission Spectroscopy. Applied Mechanics and Materials, 0, 771, 125-128.	0.2	0
60	A possible route for left-handed meta-materials using ferromagnetic-metal nanocomposite films. , 2006, , .		0
61	Gold nanostructures using tobacco mosaic viruses for optical metamaterials. , 2011, , .		0
62	Physics in Metamaterials. Journal of the Institute of Electrical Engineers of Japan, 2017, 137, 346-349.	0.0	0