Susumu Takahashi

List of Publications by Year
in descending order

52	1,928	394390 19	243610 44
papers	citations	h-index	g-index

53	53	53	2443
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Inverse spin-Hall effect induced by spin pumping in metallic system. Journal of Applied Physics, 2011, 109, .	2.5	438
2	Quenching Spin Decoherence in Diamond through Spin Bath Polarization. Physical Review Letters, 2008, 101, 047601.	7.8	207
3	Decoherence in crystals of quantum molecular magnets. Nature, 2011, 476, 76-79.	27.8	192
4	Angular dependence of inverse spinâ€“Hall effect induced by spin pumping investigated in a<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Ni</mml:mtext></mml:mrow><mml:mrow><mml:mn>81</mml:m film. Physical Review B, 2008, 78, .	3.2	172
5	Pulsed electron paramagnetic resonance spectroscopy powered by a free-electron laser. Nature, 2012, 489, 409-413.	27.8	125
6	Coherent Manipulation and Decoherence ofS=10Single-Molecule Magnets. Physical Review Letters, 2009, 102, 087603.	7.8	88
7	Rotating cavity for high-field angle-dependent microwave spectroscopy of low-dimensional conductors and magnets. Review of Scientific Instruments, 2005, 76, 023114.	1.3	70
8	Discrete easy-axis tilting inMn12-acetate, as determined by EPR: Implications for the magnetic quantum tunneling mechanism. Physical Review B, 2004, 70, .	3.2	60
9	Spin decoherence and electron spin bath noise of a nitrogen-vacancy center in diamond. Physical Review B, 2013, 87, .	3.2	60
10	Large Mn₂₅ Single-Molecule Magnet with Spin S = ⁵¹₂: Magnetic and High-Frequency Electron Paramagnetic Resonance Spectroscopic Characterization of a Giant Spin State. Inorganic Chemistry, 2008, 47, 9459-9470.	4.0	56
11	High-frequency and high-field optically detected magnetic resonance of nitrogen-vacancy centers in diamond. Applied Physics Letters, 2015, 106, .	3.3	46
12	Determination of nitrogen spin concentration in diamond using double electron-electron resonance. Physical Review B, 2016, 94, .	3.2	35
13	A comparison between high-symmetry Mn12 single-molecule magnets in different ligand/solvent environments. Polyhedron, 2005, 24, 2284-2292.	2.2	34
14	A spectroscopic comparison between several high-symmetry S=10 Mn12 single-molecule magnets. Journal of Applied Physics, 2005, 97, 10M510.	2.5	27
15	A high-frequency electron paramagnetic resonance spectrometer for multi-dimensional, multi-frequency, and multi-phase pulsed measurements. Review of Scientific Instruments, 2014, 85, 075110.	1.3	26
16	High-Field Phenomena of Qubits. Applied Magnetic Resonance, 2009, 36, 259-268.	1.2	25
17	Investigating Functional DNA Grafted on Nanodiamond Surface Using Site-Directed Spin Labeling and Electron Paramagnetic Resonance Spectroscopy. Journal of Physical Chemistry B, 2016, 120, 4003-4008.	2.6	24
18	Periodic-orbit resonance in the quasi-one-dimensional organic superconductor(TMTSF)2ClO4. Physical Review B, 2005, 72, .	3.2	20

#	Article	IF	Citations
19	Grafting Nitroxide Radicals on Nanodiamond Surface Using Click Chemistry. Journal of Physical Chemistry A, 2013, 117, 11933-11939.	2.5	20
20	Cavity dumping of an injection-locked free-electron laser. Applied Physics Letters, 2009, 95, .	3.3	19
21	Low temperature synthesis and characterization of lanthanide-doped BaTiO3 nanocrystals. Chemical Communications, 2014, 50, 3480.	4.1	16
22	Distance measurements across randomly distributed nitroxide probes from the temperature dependence of the electron spin phase memory time at 240GHz. Journal of Magnetic Resonance, 2012, 223, 198-206.	2.1	15
23	Submegahertz linewidth at 240GHz from an injection-locked free-electron laser. Applied Physics Letters, 2007, 91, .	3.3	14
24	Electron spin resonance spectroscopy of small ensemble paramagnetic spins using a single nitrogen-vacancy center in diamond. Journal of Applied Physics, 2016, 120, .	2.5	13
25	Electronâ€“electron double resonance detected NMR spectroscopy using ensemble NV centers at 230â€‰GHz and 8.3â€‰T. Journal of Applied Physics, 2021, 130, .	2.5	12
26	230/115GHz Electron Paramagnetic Resonance/Double Electronâ€“Electron Resonance Spectroscopy. Methods in Enzymology, 2015, 563, 95-118.	1.0	11
27	Determination of local defect density in diamond by double electron-electron resonance. Physical Review B, 2021, 104, .	3.2	10
28	High field high frequency EPR techniques and their application to single molecule magnets. Physica B: Condensed Matter, 2004, 346-347, 211-215.	2.7	9
29	Understanding the Linewidth of the ESR Spectrum Detected by a Single NV Center in Diamond. Journal of Physical Chemistry A, 2019, 123, 6350-6355.	2.5	9
30	Investigation of near-surface defects of nanodiamonds by high-frequency EPR and DFT calculation. Journal of Chemical Physics, 2019, 150, 134702.	3.0	9
31	Ultrahigh nitrogen-vacancy center concentration in diamond. Carbon, 2022, 188, 393-400.	10.3	9
32	Pulsed EPR spectrometer with injection-locked UCSB free-electron laser. Infrared Physics and Technology, 2008, 51, 426-428.	2.9	8
33	Demonstration of NV-detected ESR spectroscopy at 115â€‰GHz and 4.2â€‰T. Applied Physics Letters, 2020, 116,	3.3	7
34	Magnetic resonance spectroscopy using a single nitrogen-vacancy center in diamond. Proceedings of SPIE, 2014, , .	0.8	6
35	Spin coherence in a Mn3 single-molecule magnet. Applied Physics Letters, 2016, 108, .	3.3	6
36	Periodic orbit resonance in (TMTSF)2ClO4. Journal of Applied Physics, 2003, 93, 8665-8667.	2.5	5

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37	DNP-NMR of surface hydrogen on silicon microparticles. Solid State Nuclear Magnetic Resonance, 2019, 101, 68-75.	2.3	5
38	Reduction of surface spin-induced electron spin relaxations in nanodiamonds. Journal of Applied Physics, 2020, 128, .	2.5	5
39	FERMI SURFACE STUDIES OF QUASI-1D and QUASI-2D ORGANIC SUPERCONDUCTORS USING PERIODIC ORBIT RESONANCE IN HIGH MAGNETIC FIELDS. International Journal of Modern Physics B, 2004, 18, 3499-3504.	2.0	2
40	Are Lebedâ€™s Magic Angles Truly Magic?. Journal of Low Temperature Physics, 2007, 142, 315-318.	1.4	2
41	High-Frequency Electron Paramagnetic Resonance Spectroscopy of Nitroxide-Functionalized Nanodiamonds in Aqueous Solution. Cell Biochemistry and Biophysics, 2017, 75, 151-157.	1.8	2
42	Investigation of Coherence Time of a Nitrogen-Vacancy Center in Diamond Created by a Low-Energy Nitrogen Implantation. Applied Magnetic Resonance, 2017, 48, 571-577.	1.2	2
43	Microwave Spectroscopy of Q1D and Q2D Organic Conductors. Springer Series in Materials Science, 2008, , 457-484.	0.6	2
44	Effect of an In-Plane Magnetic Field on the Interlayer Phase Coherence in the Extreme-2D Organic Superconductor Î°-(BEDT-TTF)2Cu(NCS)2. International Journal of Modern Physics B, 2003, 17, 3547-3553.	2.0	1
45	Angle-resolved mapping of the Fermi velocity in quasi-two-dimensional conductors and superconductors: Probing quasiparticles in nodal superconductors. Journal of Applied Physics, 2005, 97, 10B106.	2.5	1
46	Observation of a Non-Magnetic Impurity Effect in the Organic Superconductor (TMTSF)2ClO4. AIP Conference Proceedings, 2006, , .	0.4	1
47	A diffraction-compensating â€“25ns free space terahertz delay line for coherent quantum control. Review of Scientific Instruments, 2007, 78, 113103.	1.3	1
48	Microwave AC Resonance Induced Phase Change in Sb₂Te₃ Nanowires. Nano Letters, 2020, 20, 8668-8674.	9.1	1
49	Temperature dependence of the Josephson plasma resonance between vortex phases in the organic superconductor Î°-(BEDT-TTF)2Cu(NCS)2. Solid State Communications, 2004, 131, 719-723.	1.9	0
50	Are lebedâ€™s magic angles truly magic?. Journal of Low Temperature Physics, 2006, 142, 311-314.	1.4	0
51	FERMI SURFACE STUDIES OF QUASI-1D and QUASI-2D ORGANIC SUPERCONDUCTORS USING PERIODIC ORBIT RESONANCE IN HIGH MAGNETIC FIELDS. , 2005, , .		0
52	Numerical simulations for ferromagnetic resonance of nano-size island structures probed by radio-frequency scanning tunneling microscopy. Japanese Journal of Applied Physics, 2022, 61, 025001.	1.5	0