

Takuya F Segawa

List of Publications by Year in descending order

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34
papers

1,432
citations

567281

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all docs

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docs citations

39
times ranked

2077
citing authors

#	ARTICLE	IF	CITATIONS
1	Indium Oxide as a Superior Catalyst for Methanol Synthesis by CO ₂ Hydrogenation. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6261-6265.	13.8	769
2	Exact Distances and Internal Dynamics of Perdeuterated Ubiquitin from NOE Buildups. <i>Journal of the American Chemical Society</i> , 2009, 131, 17215-17225.	13.7	91
3	Indium Oxide as a Superior Catalyst for Methanol Synthesis by CO ₂ Hydrogenation. <i>Angewandte Chemie</i> , 2016, 128, 6369-6373.	2.0	78
4	pH Nanosensor Using Electronic Spins in Diamond. <i>ACS Nano</i> , 2019, 13, 11726-11732.	14.6	68
5	Exchange Rate Constants of Invisible Protons in Proteins Determined by NMR Spectroscopy. <i>ChemBioChem</i> , 2008, 9, 537-542.	2.6	47
6	Monodisperse Five-Nanometer-Sized Detonation Nanodiamonds Enriched in Nitrogen-Vacancy Centers. <i>ACS Nano</i> , 2019, 13, 6461-6468.	14.6	38
7	Enrichment of ODMR-active nitrogen-vacancy centres in five-nanometre-sized detonation-synthesized nanodiamonds: Nanoprobes for temperature, angle and position. <i>Scientific Reports</i> , 2018, 8, 5463.	3.3	33
8	Copper ESEEM and HYSCORE through ultra-wideband chirp EPR spectroscopy. <i>Journal of Chemical Physics</i> , 2015, 143, 044201.	3.0	30
9	Nanodiamonds for bioapplications—specific targeting strategies. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129354.	2.4	30
10	Apparent Transverse Relaxation Rates in Systems with Scalar-Coupled Protons. <i>Journal of the American Chemical Society</i> , 2009, 131, 17538-17539.	13.7	21
11	Ultrahigh-Resolution Magnetic Resonance in Inhomogeneous Magnetic Fields: Two-Dimensional Long-Lived-Coherence Correlation Spectroscopy. <i>Physical Review Letters</i> , 2012, 109, 047602.	7.8	21
12	Water accessibility in a membrane-inserting peptide comparing Overhauser DNP and pulse EPR methods. <i>Journal of Chemical Physics</i> , 2016, 144, 194201.	3.0	20
13	Polychromatic Decoupling of a Manifold of Homonuclear Scalar Interactions in Solution-State NMR. <i>Chemistry - A European Journal</i> , 2012, 18, 11573-11576.	3.3	19
14	High-Resolution Quantum Sensing with Shaped Control Pulses. <i>Physical Review Letters</i> , 2017, 119, 260501.	7.8	19
15	Determination of transverse relaxation rates in systems with scalar-coupled spins: The role of antiphase coherences. <i>Journal of Magnetic Resonance</i> , 2013, 237, 139-146.	2.1	17
16	Transverse Relaxation of Scalar-Coupled Protons. <i>ChemPhysChem</i> , 2010, 11, 3343-3354.	2.1	15
17	Optical hyperpolarization of nitrogen donor spins in bulk diamond. <i>Physical Review B</i> , 2017, 95, .	3.2	15
18	Transverse interference peaks in chirp FT-EPR correlated three-pulse ESEEM spectra. <i>Journal of Magnetic Resonance</i> , 2016, 272, 37-45.	2.1	12

#	ARTICLE	IF	CITATIONS
19	Apparent transverse relaxation rates in systems with coupled carbon-13 spins. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 9772.	2.8	10
20	Fabrication of Detonation Nanodiamonds Containing Silicon Vacancy Color Centers by High Temperature Annealing. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021, 218, 2100144.	1.8	10
21	Quenching homonuclear couplings in magnetic resonance by trains of non-refocusing pulses. <i>Journal of Magnetic Resonance</i> , 2011, 211, 240-242.	2.1	8
22	Control of Cross Relaxation of Multiple Quantum Coherences Induced by Fast Chemical Exchange under Heteronuclear Double Resonance Irradiation. <i>ChemPhysChem</i> , 2011, 12, 333-341.	2.1	8
23	Room-temperature hyperpolarization of polycrystalline samples with optically polarized triplet electrons: pentacene or nitrogen-vacancy center in diamond?. <i>Magnetic Resonance</i> , 2021, 2, 33-48.	1.9	8
24	A simple and soft chemical deaggregation method producing single-digit detonation nanodiamonds. <i>Nanoscale Advances</i> , 2022, 4, 2268-2277.	4.6	8
25	How to Identify, Attribute, and Quantify Triplet Defects in Ensembles of Small Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7438-7442.	4.6	6
26	Label-free tomographic imaging of nanodiamonds in living cells. <i>Diamond and Related Materials</i> , 2021, 118, 108517.	3.9	6
27	Anomalous Formation of Irradiation-Induced Nitrogen-Vacancy Centers in 5 nm-Sized Detonation Nanodiamonds. <i>Journal of Physical Chemistry C</i> , 2022, 126, 5206-5217.	3.1	6
28	Dynamic Nuclear Polarization and Other Magnetic Ideas at EPFL. <i>Chimia</i> , 2012, 66, 734.	0.6	3
29	Transverse Relaxation of Scalar Coupled Protons in Magnetic Resonance of Non-Deuterated Proteins. <i>Applied Magnetic Resonance</i> , 2012, 42, 353-361.	1.2	2
30	How to Tickle Spins with a Fourier Transform NMR Spectrometer. <i>ChemPhysChem</i> , 2013, 14, 369-373.	2.1	2
31	Exchange Rate Constants of Invisible Protons in Proteins Determined by NMR Spectroscopy. <i>ChemBioChem</i> , 2009, 10, 782-782.	2.6	0
32	Extending Timescales and Narrowing Linewidths in NMR. <i>Chimia</i> , 2011, 65, 652.	0.6	0
33	Titelbild: Indium Oxide as a Superior Catalyst for Methanol Synthesis by CO ₂ Hydrogenation (<i>Angew. Chem.</i> 21/2016). <i>Angewandte Chemie</i> , 2016, 128, 6215-6215.	2.0	0
34	Comment on "Sub-5 nm Nanodiamonds Fabricated by Plasma Immersion Ion Implantation as Fluorescent Probes". <i>ACS Applied Nano Materials</i> , 2021, 4, 5621-5623.	5.0	0