Takuya F Segawa

List of Publications by Year in descending order

34 papers	1,432 citations	567281 15 h-index	434195 31 g-index
39 all docs	39 docs citations	39 times ranked	2077 citing authors

#	Article	IF	Citations
1	A simple and soft chemical deaggregation method producing single-digit detonation nanodiamonds. Nanoscale Advances, 2022, 4, 2268-2277.	4.6	8
2	Anomalous Formation of Irradiation-Induced Nitrogen-Vacancy Centers in 5 nm-Sized Detonation Nanodiamonds. Journal of Physical Chemistry C, 2022, 126, 5206-5217.	3.1	6
3	Room-temperature hyperpolarization of polycrystalline samples with optically polarized triplet electrons: pentacene or nitrogen-vacancy center in diamond?. Magnetic Resonance, 2021, 2, 33-48.	1.9	8
4	Comment on â€œSub-5 nm Nanodiamonds Fabricated by Plasma Immersion Ion Implantation as Fluorescent Probesâ€. ACS Applied Nano Materials, 2021, 4, 5621-5623.	5.0	0
5	Fabrication of Detonation Nanodiamonds Containing Siliconâ€Vacancy Color Centers by High Temperature Annealing. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2100144.	1.8	10
6	Label-free tomographic imaging of nanodiamonds in living cells. Diamond and Related Materials, 2021, 118, 108517.	3.9	6
7	Nanodiamonds for bioapplicationsâ€“specific targeting strategies. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129354.	2.4	30
8	How to Identify, Attribute, and Quantify Triplet Defects in Ensembles of Small Nanoparticles. Journal of Physical Chemistry Letters, 2020, 11, 7438-7442.	4.6	6
9	pH Nanosensor Using Electronic Spins in Diamond. ACS Nano, 2019, 13, 11726-11732.	14.6	68
10	Monodisperse Five-Nanometer-Sized Detonation Nanodiamonds Enriched in Nitrogen-Vacancy Centers. ACS Nano, 2019, 13, 6461-6468.	14.6	38
11	Enrichment of ODMR-active nitrogen-vacancy centres in five-nanometre-sized detonation-synthesized nanodiamonds: Nanoprobes for temperature, angle and position. Scientific Reports, 2018, 8, 5463.	3.3	33
12	Optical hyperpolarization of nitrogen donor spins in bulk diamond. Physical Review B, 2017, 95, .	3.2	15
13	High-Resolution Quantum Sensing with Shaped Control Pulses. Physical Review Letters, 2017, 119, 260501.	7.8	19
14	Indium Oxide as a Superior Catalyst for Methanol Synthesis by CO₂ Hydrogenation. Angewandte Chemie, 2016, 128, 6369-6373.	2.0	78
15	Titelbild: Indium Oxide as a Superior Catalyst for Methanol Synthesis by CO₂ Hydrogenation (Angew. Chem. 21/2016). Angewandte Chemie, 2016, 128, 6215-6215.	2.0	0
16	Water accessibility in a membrane-inserting peptide comparing Overhauser DNP and pulse EPR methods. Journal of Chemical Physics, 2016, 144, 194201.	3.0	20
17	Transverse interference peaks in chirp FT-EPR correlated three-pulse ESEEM spectra. Journal of Magnetic Resonance, 2016, 272, 37-45.	2.1	12
18	Indium Oxide as a Superior Catalyst for Methanol Synthesis by CO₂ Hydrogenation. Angewandte Chemie - International Edition, 2016, 55, 6261-6265.	13.8	769

#	Article	IF	Citations
19	Copper ESEEM and HYSCORE through ultra-wideband chirp EPR spectroscopy. Journal of Chemical Physics, 2015, 143, 044201.	3.0	30
20	Determination of transverse relaxation rates in systems with scalar-coupled spins: The role of antiphase coherences. Journal of Magnetic Resonance, 2013, 237, 139-146.	2.1	17
21	How to Tickle Spins with a Fourier Transform NMR Spectrometer. ChemPhysChem, 2013, 14, 369-373.	2.1	2
22	Ultrahigh-Resolution Magnetic Resonance in Inhomogeneous Magnetic Fields: Two-Dimensional Long-Lived-Coherence Correlation Spectroscopy. Physical Review Letters, 2012, 109, 047602.	7.8	21
23	Dynamic Nuclear Polarization and Other Magnetic Ideas at EPFL. Chimia, 2012, 66, 734.	0.6	3
24	Polychromatic Decoupling of a Manifold of Homonuclear Scalar Interactions in Solutionâ€State NMR. Chemistry - A European Journal, 2012, 18, 11573-11576.	3.3	19
25	Transverse Relaxation of Scalar Coupled Protons in Magnetic Resonance of Non-Deuterated Proteins. Applied Magnetic Resonance, 2012, 42, 353-361.	1.2	2
26	Extending Timescales and Narrowing Linewidths in NMR. Chimia, 2011, 65, 652.	0.6	0
27	Quenching homonuclear couplings in magnetic resonance by trains of non-refocusing pulses. Journal of Magnetic Resonance, 2011, 211, 240-242.	2.1	8
28	Control of Cross Relaxation of Multipleâ€Quantum Coherences Induced by Fast Chemical Exchange under Heteronuclear Doubleâ€Resonance Irradiation. ChemPhysChem, 2011, 12, 333-341.	2.1	8
29	Transverse Relaxation of Scalarâ€Coupled Protons. ChemPhysChem, 2010, 11, 3343-3354.	2.1	15
30	Apparent transverse relaxation rates in systems with coupled carbon-13 spins. Physical Chemistry Chemical Physics, 2010, 12, 9772.	2.8	10
31	Exchange Rate Constants of Invisible Protons in Proteins Determined by NMR Spectroscopy. ChemBioChem, 2009, 10, 782-782.	2.6	0
32	Apparent Transverse Relaxation Rates in Systems with Scalar-Coupled Protons. Journal of the American Chemical Society, 2009, 131, 17538-17539.	13.7	21
33	Exact Distances and Internal Dynamics of Perdeuterated Ubiquitin from NOE Buildups. Journal of the American Chemical Society, 2009, 131, 17215-17225.	13.7	91
34	Exchange Rate Constants of Invisible Protons in Proteins Determined by NMR Spectroscopy. ChemBioChem, 2008, 9, 537-542.	2.6	47