

Nghia Tuan Duong

List of Publications by Year in descending order

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65
papers

1,387
citations

393982

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360668

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68
all docs

68
docs citations

68
times ranked

1743
citing authors

#	ARTICLE	IF	CITATIONS
1	Construction of a Hierarchical Architecture of Covalent Organic Frameworks via a Postsynthetic Approach. <i>Journal of the American Chemical Society</i> , 2018, 140, 2602-2609.	6.6	117
2	The NMR "Rosetta capsid model of M13 bacteriophage reveals a quadrupled hydrophobic packing epitope. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 971-976.	3.3	91
3	Untangling the Condensation Network of Organosiloxanes on Nanoparticles using 2D ^{29}Si Solid-State NMR Enhanced by Dynamic Nuclear Polarization. <i>Journal of the American Chemical Society</i> , 2014, 136, 13781-13788.	6.6	89
4	Magic Angle Spinning NMR Spectroscopy: A Versatile Technique for Structural and Dynamic Analysis of Solid-Phase Systems. <i>Analytical Chemistry</i> , 2015, 87, 5458-5469.	3.2	86
5	Primostrato Solid-State NMR Enhanced by Dynamic Nuclear Polarization: Pentacoordinated Al^{3+} Ions Are Only Located at the Surface of Hydrated Al_2O_3 -Alumina. <i>Journal of Physical Chemistry C</i> , 2014, 118, 25065-25076.	1.5	83
6	Enhanced conversion of triple to single-quantum coherence in the triple-quantum MAS NMR spectroscopy of spin-5/2 nuclei. <i>Chemical Physics Letters</i> , 2000, 320, 448-456.	1.2	65
7	Using Dynamic Bonds to Enhance the Mechanical Performance: From Microscopic Molecular Interactions to Macroscopic Properties. <i>Macromolecules</i> , 2019, 52, 5014-5025.	2.2	64
8	Crystal melting and glass formation in copper thiocyanate based coordination polymers. <i>Chemical Communications</i> , 2019, 55, 5455-5458.	2.2	57
9	Phase-modulated LA-REDOR: A robust, accurate and efficient solid-state NMR technique for distance measurements between a spin-1/2 and a quadrupole spin. <i>Journal of Magnetic Resonance</i> , 2014, 244, 107-113.	1.2	49
10	Selective Synthesis of a Salt and a Cocrystal of the Ethionamide "Salicylic Acid System. <i>Crystal Growth and Design</i> , 2020, 20, 906-915.	1.4	49
11	Characterization of Aluminum Species in Alumina Multilayer Grafted MCM-41 Using ^{27}Al FAM(II)-MQMAS NMR. <i>Journal of Physical Chemistry B</i> , 2003, 107, 724-731.	1.2	41
12	Quantitative ^1H - ^1H Distances in Protonated Solids by Frequency-Selective Recoupling at Fast Magic Angle Spinning NMR. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5948-5954.	2.1	39
13	Bottom-Up Synthesis of Advanced Carbonaceous Anode Materials Containing Sulfur for Na-Ion Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 2000592.	7.8	37
14	Accurate ^1H - ^{14}N distance measurements by phase-modulated RESPDOR at ultra-fast MAS. <i>Journal of Magnetic Resonance</i> , 2019, 308, 106559.	1.2	32
15	Intersubunit Hydrophobic Interactions in Pf1 Filamentous Phage. <i>Journal of Biological Chemistry</i> , 2010, 285, 37051-37059.	1.6	31
16	Biomolecular magic-angle spinning solid-state NMR: recent methods and applications. <i>Current Opinion in Biotechnology</i> , 2013, 24, 705-715.	3.3	29
17	Cryo-electron microscopy structure of the filamentous bacteriophage IKe. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 5493-5498.	3.3	29
18	Can proton-proton recoupling in fully protonated solids provide quantitative, selective and efficient polarization transfer?. <i>Journal of Magnetic Resonance</i> , 2020, 317, 106777.	1.2	22

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19	Magic-angle spinning NMR of intact bacteriophages: Insights into the capsid, DNA and their interface. <i>Journal of Magnetic Resonance</i> , 2015, 253, 80-90.	1.2	19
20	Accuracy of ^1H - ^1H distances measured using frequency selective recoupling and fast magic-angle spinning. <i>Journal of Chemical Physics</i> , 2020, 153, 084202.	1.2	19
21	Site-Resolved Backbone and Side-Chain Intermediate Dynamics in a Carbohydrate-Binding Module Protein Studied by Magic-Angle Spinning NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2015, 21, 10778-10785.	1.7	18
22	Hexameric Capsules Studied by Magic Angle Spinning Solid-State NMR Spectroscopy: Identifying Solvent Molecules in Pyrogallol[4]arene Capsules. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 904-907.	7.2	16
23	3D Double-Quantum/Double-Quantum Exchange Spectroscopy of Protons under 100 kHz Magic Angle Spinning. <i>Journal of Physical Chemistry B</i> , 2017, 121, 5944-5952.	1.2	16
24	Resolution enhancement and proton proximity probed by 3D TQ/DQ/SQ proton NMR spectroscopy under ultrafast magic-angle-spinning beyond 70 kHz. <i>Journal of Magnetic Resonance</i> , 2019, 304, 78-86.	1.2	16
25	Synthesis and Structural Characterization of a Pure $\text{ZnAl}_4(\text{OH})_{12}(\text{SO}_4)_2 \cdot 2.6\text{H}_2\text{O}$ Layered Double Hydroxide. <i>Inorganic Chemistry</i> , 2019, 58, 6114-6122.	1.9	15
26	Structural Effects of Single Mutations in a Filamentous Viral Capsid Across Multiple Length Scales. <i>Biomacromolecules</i> , 2017, 18, 2258-2266.	2.6	13
27	Structural characterization of bacteriophage viruses by NMR. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2019, 114-115, 192-210.	3.9	13
28	Virus Structures and Dynamics by Magic-Angle Spinning NMR. <i>Annual Review of Virology</i> , 2021, 8, 219-237.	3.0	13
29	Detection of remote proton-nitrogen correlations by ^1H -detected ^{14}N overtone solid-state NMR at fast MAS. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 10717-10726.	1.3	13
30	Satellite and central transitions selective $^1\text{H}/^{27}\text{Al}$ D-HMQC experiments at very fast MAS for quadrupolar couplings determination. <i>Solid State Nuclear Magnetic Resonance</i> , 2017, 84, 83-88.	1.5	12
31	Distance Measurements to Metal Ions and Other Quadrupolar Spins by Magic Angle Spinning Solid State NMR. <i>Israel Journal of Chemistry</i> , 2014, 54, 125-135.	1.0	11
32	Selective ^1H - ^{14}N Distance Measurements by ^{14}N Overtone Solid-State NMR Spectroscopy at Fast MAS. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 645347.	1.6	11
33	Determination of the ^{15}N chemical shift anisotropy in natural abundance samples by proton-detected 3D solid-state NMR under ultrafast MAS of 70 kHz. <i>Magnetic Resonance in Chemistry</i> , 2019, 57, 294-303.	1.1	10
34	Selective ^1H - ^1H recoupling via symmetry sequences in fully protonated samples at fast magic angle spinning. <i>Journal of Magnetic Resonance</i> , 2021, 328, 107004.	1.2	10
35	Composition processing property relationship of vitrimers Based on polyethyleneimine. <i>Polymer Chemistry</i> , 2021, 12, 3307-3320.	1.9	9
36	On the use of radio-frequency offsets for improving double-quantum homonuclear dipolar recoupling of half-integer spin quadrupolar nuclei. <i>Magnetic Resonance in Chemistry</i> , 2021, 59, 991-1008.	1.1	9

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37	Filamentous Bacteriophage Viruses: Preparation, Magic-Angle Spinning Solid-State NMR Experiments, and Structure Determination. <i>Methods in Molecular Biology</i> , 2018, 1688, 67-97.	0.4	9
38	A Kinetic Isotope Effect in the Formation of Lanthanide Phosphate Nanocrystals. <i>Journal of the American Chemical Society</i> , 2022, 144, 9451-9457.	6.6	9
39	Saturation capability of short phase modulated pulses facilitates the measurement of longitudinal relaxation times of quadrupolar nuclei. <i>Solid State Nuclear Magnetic Resonance</i> , 2017, 84, 196-203.	1.5	8
40	Effect of Surface Chemistry and Crystallographic Parameters of TiO ₂ Anatase Nanocrystals on Photocatalytic Degradation of Bisphenol A. <i>Catalysts</i> , 2019, 9, 447.	1.6	8
41	Improved sensitivity and quantification for ²⁹ Si NMR experiments on solids using UDEFT (Uniform) T _j ETQq1 1 0.784314 rgBJ /Overl	1.5	8
42	β-Cyclodextrin Encapsulation of Bicyclo[1.1.1]pentane Derivatives: A Storable Feedstock for Preparation of [1.1.1]Propellane. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2578-2582.	7.2	8
43	Structure Solution of Nano-Crystalline Small Molecules Using MicroED and Solid-State NMR Dipolar-Based Experiments. <i>Molecules</i> , 2021, 26, 4652.	1.7	8
44	Dynamics and Rigidity of an Intact Filamentous Bacteriophage Virus Probed by Magic Angle Spinning NMR. <i>Chemistry - A European Journal</i> , 2018, 24, 8737-8741.	1.7	7
45	Evaluation of a high-resolution micro-sized magic angle spinning (HR ¹ /4MAS) probe for NMR-based metabolomic studies of nanoliter samples. <i>Analytical Methods</i> , 2016, 8, 6815-6820.	1.3	6
46	¹ H-Detected quadrupolar spin ² lattice relaxation measurements under magic-angle spinning solid-state NMR. <i>Chemical Communications</i> , 2019, 55, 5643-5646.	2.2	6
47	Assessment of Non-Uniform Sampling Schemes in Solid State NMR of Bacteriophage Viruses. <i>Israel Journal of Chemistry</i> , 2019, 59, 1027-1038.	1.0	6
48	Indirect detection of ¹⁰ B (I ² = ³) overtone NMR at very fast magic angle spinning. <i>Journal of Magnetic Resonance</i> , 2018, 291, 27-31.	1.2	5
49	Synthesis of porous coordination polymers using carbon dioxide as a direct source. <i>Chemical Communications</i> , 2019, 55, 9283-9286.	2.2	5
50	Capillary-Inserted Rotor Design for HR ¹ μMAS NMR-Based Metabolomics on Mass-Limited Neurospheres. <i>Molecules</i> , 2017, 22, 1289.	1.7	4
51	Forcing the ¹⁵ N protons to work. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 25829-25840.	1.3	4
52	Borohydride-containing coordination polymers: synthesis, air stability and dehydrogenation. <i>Chemical Science</i> , 2019, 10, 6193-6198.	3.7	4
53	Distance measurements to quadrupolar nuclei: Evolution of the rotational echo double resonance technique. <i>Magnetic Resonance in Chemistry</i> , 2021, 59, 908-919.	1.1	4
54	Very Fast MAS NMR >60 kHz for Structural Elucidation. <i>New Developments in NMR</i> , 2019, , 506-532.	0.1	3

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55	Editorial for Special Issue "Structure and dynamics of biomolecular assemblies by solid-state NMR". Journal of Structural Biology, 2019, 207, 103.	1.3	2
56	Separating an overlapped ¹ H peak and identifying its ¹ H- ¹ H correlations with the use of single-channel ¹ H solid-state NMR at fast MAS. Solid State Nuclear Magnetic Resonance, 2022, 117, 101774.	1.5	2
57	Pulse induced resonance with angular dependent total enhancement of multi-dimensional solid-state NMR correlation spectra. Journal of Magnetic Resonance, 2022, 338, 107191.	1.2	2
58	Solid state NMR chemical shift assignment of the non-structural single-stranded DNA binding protein gVp from fd bacteriophage. Biomolecular NMR Assignments, 2022, 16, 181-185.	0.4	2
59	Hexameric Capsules Studied by Magic Angle Spinning Solid-State NMR Spectroscopy: Identifying Solvent Molecules in Pyrogallol[4]arene Capsules. Angewandte Chemie, 2016, 128, 916-919.	1.6	1
60	Rapid automated determination of chemical shift anisotropy values in the carbonyl and carboxyl groups of fd-γ21m bacteriophage using solid state NMR. Journal of Biomolecular NMR, 2018, 72, 55-67.	1.6	1
61	Nonuniformly sampled exclusively ¹³ C/ ¹⁵ N 4D solid-state NMR experiments: Assignment and characterization of IKe phage capsid. Magnetic Resonance in Chemistry, 2021, 59, 237-246.	1.1	1
62	β-Cyclodextrin Encapsulation of Bicyclo[1.1.1]pentane Derivatives: A Storable Feedstock for Preparation of [1.1.1]Propellane. Angewandte Chemie, 2021, 133, 2610-2614.	1.6	1
63	Characterizing hydrogen bonds in intact RNA from MS2 bacteriophage using magic angle spinning NMR. Biophysical Reports, 2021, 1, 100027.	0.7	1
64	Practical guides for ¹ H detected solid-state NMR under fast MAS for small molecules. Journal of Magnetic Resonance Open, 2022, 10-11, 100062.	0.5	1
65	Titelbild: β-Cyclodextrin Encapsulation of Bicyclo[1.1.1]pentane Derivatives: A Storable Feedstock for Preparation of [1.1.1]Propellane (Angew. Chem. 5/2021). Angewandte Chemie, 2021, 133, 2197-2197.	1.6	0