

Joachim Wuttke

List of Publications by Year in descending order

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56
papers

1,784
citations

331670

21
h-index

265206

42
g-index

58
all docs

58
docs citations

58
times ranked

2099
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for collaborative development of sustainable data treatment software. <i>Journal of Neutron Research</i> , 2022, 24, 33-72.	1.1	6
2	Nanosecond structural dynamics of intrinsically disordered $\hat{\nu}^2$ -casein micelles by neutron spectroscopy. <i>Biophysical Journal</i> , 2021, 120, 5408-5420.	0.5	2
3	Quasielastic neutron scattering studies on couplings of protein and water dynamics in hydrated elastin. <i>Journal of Chemical Physics</i> , 2020, 152, 245101.	3.0	9
4	Multiple Bragg reflection by a thick mosaic crystal. II. Simplified transport equation solved on a grid. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2020, 76, 376-389.	0.1	1
5	Hyperfine interaction in cobalt by high-resolution neutron spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 025801.	1.8	1
6	Organic-inorganic hybrid crystals, (2,4,6-CH ₃ PyH)3Sb ₂ Cl ₉ and (2,4,6-CH ₃ PyH)3Bi ₂ Cl ₉ . Crystal structure characterization and tunneling of CH ₃ groups studied by ¹ H NMR and neutron spectroscopy. <i>Polyhedron</i> , 2018, 139, 249-256.	2.2	17
7	Substrate Locking Promotes Dimer-Dimer Docking of an Enzyme Antibiotic Target. <i>Structure</i> , 2018, 26, 948-959.e5.	3.3	5
8	No case against scattering theory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E8318-E8318.	7.1	4
9	Dynamics of water confined in mesoporous magnesium carbonate. <i>Journal of Chemical Physics</i> , 2016, 145, 234503.	3.0	0
10	Crossover from localized to diffusive water dynamics in carbon nanohorns: A comprehensive quasielastic neutron-scattering analysis. <i>Physical Review E</i> , 2016, 93, 022104.	2.1	5
11	Translational diffusion of hydration water correlates with functional motions in folded and intrinsically disordered proteins. <i>Nature Communications</i> , 2015, 6, 6490.	12.8	199
12	The NeXus data format. <i>Journal of Applied Crystallography</i> , 2015, 48, 301-305.	4.5	133
13	Rasch-Modell, suffiziente Statistik, Transformationsgruppen und Methodenkritik: Anmerkungen zu BÄ¼chter & Pallack (2012/13) und Vohns (2012). <i>Journal Fur Mathematik-Didaktik</i> , 2014, 35, 283-293.	1.5	1
14	Multiple Bragg reflection by a thick mosaic crystal. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2014, 70, 429-440.	0.1	8
15	The zig-zag walk with scattering and absorption on the real half line and in a lattice model. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014, 47, 215203.	2.1	3
16	Structural, spectroscopic and theoretical studies on 3,4,7,8-tetramethyl-1,10-phenantroline complex with picric acid. <i>Chemical Physics</i> , 2013, 410, 55-65.	1.9	14
17	Simulation-guided optimization of small-angle analyzer geometry in the neutron backscattering spectrometer SPHERES. <i>Review of Scientific Instruments</i> , 2013, 84, 115108.	1.3	6
18	Comment on "Elastic incoherent neutron scattering operating by varying instrumental energy resolution: Principle, simulations, and experiments of the resolution elastic neutron scattering (RENS)" [Rev. Sci. Instrum. 82, 105115 (2011)]. <i>Review of Scientific Instruments</i> , 2012, 83, 107101.	1.3	4

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19	SPHERES, JÄ¼lich's high-flux neutron backscattering spectrometer at FRM II. Review of Scientific Instruments, 2012, 83, 075109.	1.3	76
20	Hindered Rotational Energy Barriers of BH ₄ ⁺ Tetrahedra in Î²-Mg(BH ₄) ₂ from Quasielastic Neutron Scattering and DFT Calculations. Journal of Physical Chemistry C, 2012, 116, 2013-2023.	3.1	43
21	Neutron Scattering and X-ray Investigation of the Structure and Dynamics of Poly(ethyl) Tj ETQq1 1 0.784314 rgBT/Overlock 10 Tf 50	4.8	21
22	Dynamical Coupling of Intrinsically Disordered Proteins and Their Hydration Water: Comparison with Folded Soluble and Membrane Proteins. Biophysical Journal, 2012, 103, 129-136.	0.5	79
23	Laplaceâ€œFourier Transform of the Stretched Exponential Function: Analytic Error Bounds, Double Exponential Transform, and Open-Source Implementation â€œ Algorithms, 2012, 5, 604-628.	2.1	28
24	A Polymer Surfactant Corona Dynamically Replaces Water in Solvent-Free Protein Liquids and Ensures Macromolecular Flexibility and Activity. Journal of the American Chemical Society, 2012, 134, 13168-13171.	13.7	45
25	Hydrogen release from sodium alanate observed by time-resolved neutron backscattering. Journal of Physics Condensed Matter, 2011, 23, 254214.	1.8	4
26	Spin correlations in the extended kagome system YBaCo ₃ Fe ₇ O ₇ . Physical Review B, 2011, 84, .	3.2	18
27	The (2:1) complex of picric acid with tetramethylpyrazine: The structure, IR spectra and tunnel splitting of methyl groups. Journal of Molecular Structure, 2010, 975, 298-302.	3.6	20
28	Hyperfine interaction in Co ₂ SiO ₄ investigated by high resolution neutron spectroscopy. Journal of Magnetism and Magnetic Materials, 2010, 322, 3148-3152.	2.3	5
29	Structure and Dynamics of a Thermo-responsive Microgel around Its Volume Phase Transition Temperature. Journal of Physical Chemistry B, 2010, 114, 10285-10293.	2.6	29
30	Hydrogen Rotational and Translational Diffusion in Calcium Borohydride from Quasielastic Neutron Scattering and DFT Calculations. Journal of Physical Chemistry C, 2010, 114, 20249-20257.	3.1	23
31	The structure of diaminodurene and the dynamics of the methyl groups. Journal of Chemical Physics, 2009, 130, 164519.	3.0	5
32	Hindered Water Motions in Hardened Cement Pastes Investigated over Broad Time and Length Scales. ACS Applied Materials & Interfaces, 2009, 1, 2154-2162.	8.0	16
33	ErhÄ¼hter Dokumentationsbedarf bei Imputation fehlender Daten. Psychologische Rundschau, 2008, 59, 178-179.	0.2	1
34	Inelastic neutron scattering study of methyl groups rotation in some methylxanthines. Journal of Chemical Physics, 2007, 127, 214509.	3.0	11
35	Polarization oscillations in aerial fiber caused by wind and power-line current. IEEE Photonics Technology Letters, 2003, 15, 882-884.	2.5	42
36	Brillouin-scattering study of propylene carbonate: An evaluation of phenomenological and mode coupling analyses. Physical Review E, 2002, 65, 051503.	2.1	29

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37	Structural relaxation and mode coupling in a non-glassforming liquid: depolarized light scattering in benzene. <i>New Journal of Physics</i> , 2002, 4, 56-56.	2.9	31
38	Self-absorption coefficient for tubular samples. <i>Physica B: Condensed Matter</i> , 2000, 292, 194-195.	2.7	4
39	Fast relaxation in viscous liquids. , 2000, , 481-495.		2
40	Propylene carbonate reexamined: Mode-coupling ² scaling without factorization?. <i>Physical Review E</i> , 2000, 61, 2730-2740.	2.1	46
41	Multiple-scattering effects on smooth neutron-scattering spectra. <i>Physical Review E</i> , 2000, 62, 6531-6539.	2.1	19
42	Prospects of resonance spin echo. <i>Physica B: Condensed Matter</i> , 1999, 266, 75-86.	2.7	39
43	Improved sample holder for multidetector neutron spectrometers. <i>Physica B: Condensed Matter</i> , 1999, 266, 112-114.	2.7	15
44	Slow Motion in a Metallic Liquid. <i>Physical Review Letters</i> , 1998, 80, 4454-4457.	7.8	92
45	First scattering experiment on MIEZE: A fourier transform time-of-flight spectrometer using resonance coils. <i>Journal of Neutron Research</i> , 1998, 7, 65-74.	1.1	28
46	Coherent dynamic structure factor of orthoterphenyl around the mode coupling crossover temperature T_c . <i>Physical Review E</i> , 1997, 56, 809-815.	2.1	62
47	Reply to "Comment on 'Fast dynamics of glass-forming glycerol' ". <i>Physical Review E</i> , 1997, 55, 2071-2071.	2.1	2
48	Comment on "Short time dynamics of glass-forming liquids" [J. Chem. Phys. 103, 1152 (1995)]. <i>Journal of Chemical Physics</i> , 1996, 104, 8169-8170.	3.0	2
49	Fast relaxation in a metastable metallic melt. <i>Europhysics Letters</i> , 1996, 36, 379-384.	2.0	14
50	Performance and future of a neutron resonance spin echo spectrometer. <i>Journal of Neutron Research</i> , 1996, 4, 261-273.	1.1	20
51	Dynamics in viscous orthoterphenyl: Results from coherent neutron scattering. <i>Physical Review E</i> , 1995, 52, 738-745.	2.1	33
52	Quasielastic neutron scattering in glass forming viscous liquids. <i>Transport Theory and Statistical Physics</i> , 1995, 24, 1075-1095.	0.4	62
53	Fast dynamics of glass-forming glycerol. <i>Physical Review E</i> , 1995, 52, 4026-4034.	2.1	150
54	Neutron and light scattering study of supercooled glycerol. <i>Physical Review Letters</i> , 1994, 72, 3052-3055.	7.8	203

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55	Signatures of the glass transition in a van der Waals liquid seen by neutrons and NMR. Physica A: Statistical Mechanics and Its Applications, 1993, 201, 223-236.	2.6	28
56	Universality classes for wetting in two-dimensional random-bond systems. Physical Review B, 1991, 44, 13042-13052.	3.2	15