Wiebke Lohstroh

List of Publications by Year
in descending order

86	2,518	29	46
papers	citations	h-index	g-index
		172457	223800

88	88	88	2532
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Neutron spectroscopy study of the diffusivity of hydrogen in MoS₂. Physical Chemistry Chemical Physics, 2021, 23, 7961-7973.	2.8	7
2	Diffusivelike Motions in a Solvent-Free Protein-Polymer Hybrid. Physical Review Letters, 2021, 126, 088102.	7.8	7
3	Pressure Dependence of Water Dynamics in Concentrated Aqueous Poly(<i>N</i>-isopropylacrylamide) Solutions with a Methanol Cosolvent. Macromolecules, 2021, 54, 4387-4400.	4.8	7
4	The Influence of the Blend Ratio, Solvent Additive, and Post-production Treatment on the Polymer Dynamics in PTB7:PCBM Blend Films. Macromolecules, 2021, 54, 6534-6542.	4.8	3
5	High Hydrogen Mobility in an Amideâ€"Borohydride Compound Studied by Quasielastic Neutron Scattering. Advanced Engineering Materials, 2021, 23, 2100620.	3.5	1
6	Quasielastic neutron scattering study on proton dynamics assisted by water and ammonia molecules confined in MIL-53. Structural Dynamics, 2021, 8, 054501.	2.3	1
7	CSPEC: The cold chopper spectrometer of the ESS, a detailed overview prior to commissioning. Review of Scientific Instruments, 2021, 92, 105104.	1.3	7
8	The instrument suite of the European Spallation Source. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 957, 163402.	1.6	90
9	Strong Adverse Contribution of Conformational Dynamics to Streptavidinâ€"Biotin Binding. Journal of Physical Chemistry B, 2020, 124, 324-335.	2.6	21
10	Metal (boro-) hydrides for high energy density storage and relevant emerging technologies. International Journal of Hydrogen Energy, 2020, 45, 33687-33730.	7.1	53
11	Molecular Mobility of a Polymer of Intrinsic Microporosity Revealed by Quasielastic Neutron Scattering. Macromolecules, 2020, 53, 6731-6739.	4.8	10
12	Investigation of Molecular Dynamics of a PTB7:PCBM Polymer Blend with Quasi-Elastic Neutron Scattering. ACS Applied Polymer Materials, 2020, 2, 3797-3804.	4.4	8
13	High-pressure cell for in situ neutron studies of hydrogen storage materials. Journal of Neutron Research, 2020, 21, 125-135.	1.1	2
14	Structure and Dynamics of Borohydrides Studied by Neutron Scattering Techniques: A Review. Journal of the Physical Society of Japan, 2020, 89, 051011.	1.6	17
15	Impact of Sulfur on the melt dynamics of glass forming Ti75Ni25â^'<i>x</i>S<i>x</i>. Applied Physics Letters, 2020, 117, .	3.3	10
16	Dynamics of porous and amorphous magnesium borohydride to understand solid state Mg-ion-conductors. Scientific Reports, 2020, 10, 9080.	3.3	38
17	Complex molecular dynamics of a symmetric model discotic liquid crystal revealed by broadband dielectric, thermal and neutron spectroscopy. Soft Matter, 2020, 16, 2005-2016.	2.7	9
18	Solution Structure and Conformational Flexibility in the Active State of the Orange Carotenoid Protein. Part II: Quasielastic Neutron Scattering. Journal of Physical Chemistry B, 2019, 123, 9536-9545.	2.6	15

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19	A quasielastic and inelastic neutron scattering study of the alkaline and alkaline-earth borohydrides LiBH₄ and Mg(BH₄)₂ and the mixture LiBH₄ + Mg(BH₄)₂. Physical Chemistry Chemical Physics, 2019, 21, 718-728.	2.8	15
20	Magnetocaloric effect in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Fe</mml:mi><mml:mn>2</mml:mn></mml:r mathvariant="normal">P</mml:mi></mml:mrow></mml:math> : Magnetic and phonon degrees of freedom. Physical Review B, 2019, 99, .	3.2	8
21	Water Dynamics in a Concentrated Poly(<i>N</i>-isopropylacrylamide) Solution at Variable Pressure. Macromolecules, 2019, 52, 1942-1954.	4.8	18
22	Homogeneous and heterogeneous dynamics in native and denatured bovine serum albumin. Physical Chemistry Chemical Physics, 2018, 20, 5128-5139.	2.8	20
23	Anomalies in the low frequency vibrational density of states for a polymer with intrinsic microporosity â€“ the Boson peak of PIM-1. Physical Chemistry Chemical Physics, 2018, 20, 1355-1363.	2.8	17
24	Applying Polymer Blend Dynamics Concepts to a Simplified Industrial System. A Combined Effort by Dielectric Spectroscopy and Neutron Scattering. Macromolecules, 2018, 51, 6692-6706.	4.8	11
25	Dynamic processes in biological membrane mimics revealed by quasielastic neutron scattering. Chemistry and Physics of Lipids, 2017, 206, 28-42.	3.2	16
26	Solvent Dynamics in Solutions of PNIPAM in Water/Methanol Mixturesâ€"A Quasi-Elastic Neutron Scattering Study. Journal of Physical Chemistry B, 2016, 120, 4679-4688.	2.6	38
27	Photoactivation Reduces Side-Chain Dynamics of a LOV Photoreceptor. Biophysical Journal, 2016, 110, 1064-1074.	0.5	17
28	Hydrogen dynamics in Î²-Mg(BH4)2 on the picosecond timescale. Physical Chemistry Chemical Physics, 2016, 18, 14323-14332.	2.8	12
29	Hydrogen diffusion in bulk and nanocrystalline palladium: A quasielastic neutron scattering study. Physical Review B, 2016, 94, .	3.2	21
30	Alzheimer's peptide amyloid-Î², fragment 22â€“40, perturbs lipid dynamics. Soft Matter, 2016, 12, 1444-1451.	2.7	17
31	Dynamics of tetrahydrofuran as minority component in a mixture with poly(2-(dimethylamino)ethyl) Tj ETQq1 1 0.784314 rgBT /Overl Physics, 2015, 143, 094505.	3.0	4
32	Intriguing differences in hydrogen adsorption in CPO-27 materials induced by metal substitution. Journal of Materials Chemistry A, 2015, 3, 4827-4839.	10.3	61
33	Hydrogen Storage Materials. Neutron Scattering Applications and Techniques, 2015, , 205-239.	0.2	5
34	Influence of Solvent on Poly(2-(Dimethylamino)Ethyl Methacrylate) Dynamics in Polymer-Concentrated Mixtures: A Combined Neutron Scattering, Dielectric Spectroscopy, and Calorimetric Study. Macromolecules, 2015, 48, 6724-6735.	4.8	16
35	Extension of the LOPLS-AA Force Field for Alcohols, Esters, and Monoolein Bilayers and its Validation by Neutron Scattering Experiments. Journal of Physical Chemistry B, 2015, 119, 15287-15299.	2.6	42
36	Effect of NaH/MgB2 ratio on the hydrogen absorption kinetics of the system NaHÂ+ÂMgB2. International Journal of Hydrogen Energy, 2014, 39, 5030-5036.	7.1	12

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37	Investigating the Gas Sorption Mechanism in an <i>rht</i>-Metalâ€“Organic Framework through Computational Studies. Journal of Physical Chemistry C, 2014, 118, 439-456.	3.1	40
38	A high rotational barrier for physisorbed hydrogen in an fcu-metalâ€“organic framework. Chemical Communications, 2014, 50, 14109-14112.	4.1	28
39	Dramatic effect of pore size reduction on the dynamics of hydrogen adsorbed in metalâ€“organic materials. Journal of Materials Chemistry A, 2014, 2, 13884.	10.3	27
40	From Molecular Dehydration to Excess Volumes of Phase-Separating PNIPAM Solutions. Journal of Physical Chemistry B, 2014, 118, 4253-4260.	2.6	55
41	Microscopic Dynamics of Polyethylene Glycol Chains Interacting with Silica Nanoparticles. Physical Review Letters, 2013, 110, 178001.	7.8	91
42	Effect of a Ti-Based Additive on the Desorption in Isotope-Labeled LiB(H,D)₄â€“Mg(H,D)₂ Nanocomposites. Journal of Physical Chemistry C, 2012, 116, 11877-11885.	3.1	10
43	LiBH₄â^’Mg(BH₄)₂: A Physical Mixture of Metal Borohydrides as Hydrogen Storage Material. Journal of Physical Chemistry C, 2011, 115, 6095-6101.	3.1	82
44	Structure and Thermodynamic Properties of the NaMgH₃ Perovskite: A Comprehensive Study. Chemistry of Materials, 2011, 23, 2317-2326.	6.7	54
45	Magnesium Imide: Synthesis and Structure Determination of an Unconventional Alkaline Earth Imide from Decomposition of Magnesium Amide. Inorganic Chemistry, 2011, 50, 1116-1122.	4.0	18
46	Hydrogen release and structural transformations in LiNH2â€“MgH2 systems. Journal of Alloys and Compounds, 2011, 509, S719-S723.	5.5	15
47	Experimental evidence of librational vibrations determining the stability of calcium borohydride. Physical Review B, 2011, 83, .	3.2	24
48	Thermodynamic Effects in Nanoscale NaAlH₄. ChemPhysChem, 2010, 11, 789-792.	2.1	88
49	In-situ neutron diffraction study of magnesium amide/lithium hydride stoichiometric mixtures with lithium hydride excess. International Journal of Hydrogen Energy, 2010, 35, 5448-5453.	7.1	13
50	In-Situ Deposition of Alkali and Alkaline Earth Hydride Thin Films To Investigate the Formation of Reactive Hydride Composites. Journal of Physical Chemistry C, 2010, 114, 13895-13901.	3.1	11
51	Pressure Effect on the 2NaH + MgB₂ Hydrogen Absorption Reaction. Journal of Physical Chemistry C, 2010, 114, 21816-21823.	3.1	53
52	Synthesis of amorphous Mg(BH4)2 from MgB2 and H2 at room temperature. Journal of Alloys and Compounds, 2010, 508, 212-215.	5.5	66
53	Altered thermodynamic and kinetic properties of MgH2 infiltrated in microporous scaffold. Chemical Communications, 2010, 46, 8353.	4.1	183
54	Wide-Line Solid-State NMR Characterizations of Sodium Alanates. Journal of Physical Chemistry C, 2009, 113, 15467-15472.	3.1	25

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55	Hydrogenation Reaction Pathway in Li₂Mg(NH)₂. Journal of Physical Chemistry C, 2009, 113, 15772-15777.	3.1	28
56	A new phase in the decomposition of Mg(BH4)2: first-principles simulated annealing. Journal of Materials Chemistry, 2009, 19, 7081.	6.7	27
57	Study of the hydride forming process of in-situ grown MgH2 thin films by activated reactive evaporation. Thin Solid Films, 2008, 516, 4351-4359.	1.8	40
58	Thermal decomposition of Mg(BH4)2 under He flow and H2 pressure. Journal of Materials Chemistry, 2008, 18, 2611.	6.7	103
59	Comparison of the Calculated and Experimental Scenarios for Solid-State Reactions Involving Ca(AlH₄)₂. Journal of Physical Chemistry C, 2008, 112, 131-138.	3.1	16
60	Rate limiting steps of the phase transformations in Ti-dopedNaAlH4investigated by isotope exchange. Physical Review B, 2007, 75, .	3.2	52
61	Critical composition dependence of the hydrogenation of Mg2Â±Î´ Ni thin films. Journal of Alloys and Compounds, 2007, 428, 34-39.	5.5	8
62	The dielectric function of Mgy NiHx thin films (). Journal of Alloys and Compounds, 2007, 430, 13-18.	5.5	20
63	Reaction steps in the Liâ€"Mgâ€"Nâ€"H hydrogen storage system. Journal of Alloys and Compounds, 2007, 446-447, 332-335.	5.5	45
64	Influence of the Chemical Potential on the Hydrogen Sorption Kinetics of Mg2Ni/TM/Pd (TM =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382	6.7	34
65	Diborane Release from LiBH₄/Silica-Gel Mixtures and the Effect of Additives. Journal of Physical Chemistry C, 2007, 111, 14026-14029.	3.1	97
66	Stabilized switchable â€œblack stateâ€•in Mg2NiH4âˆ•Tiâˆ•Pd thin films for optical hydrogen sensing. Applied Physics Letters, 2006, 89, 021913.	3.3	32
67	The growth-induced microstructural origin of the optical black state of Mg2NiHx thin films. Journal of Alloys and Compounds, 2006, 416, 2-10.	5.5	21
68	Optical, structural, and electrical properties of Mg2NiH4 thin films in situ grown by activated reactive evaporation. Journal of Applied Physics, 2006, 100, 063518.	2.5	29
69	Structure of the Mg2Ni switchable mirror: an EXAFS investigation. Materials Chemistry and Physics, 2005, 91, 1-9.	4.0	17
70	Double layer formation in Mgâ€"TM switchable mirrors (TM: Ni, Co, Fe). Journal of Alloys and Compounds, 2005, 404-406, 490-493.	5.5	18
71	Thermochromic metal-hydride bilayer devices. Journal of Alloys and Compounds, 2005, 404-406, 465-468.	5.5	6
72	Combinatorial method for the development of a catalyst promoting hydrogen uptake. Journal of Alloys and Compounds, 2005, 404-406, 699-705.	5.5	31

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73	Ti-catalyzed Mg(AlH4)2: A reversible hydrogen storage material. Journal of Alloys and Compounds, 2005, 404-406, 775-778.	5.5	36
74	Microstructural origin of the optical black state in Mg2NiHx thin films. Journal of Alloys and Compounds, 2005, 404-406, 481-484.	5.5	7
75	Self-Organized Layered Hydrogenation in BlackMg2NiHxSwitchable Mirrors. Physical Review Letters, 2004, 93, 197404.	7.8	69
76	Mgâ€“Niâ€“H films as selective coatings: Tunable reflectance by layered hydrogenation. Applied Physics Letters, 2004, 84, 3651-3653.	3.3	42
77	Temperature dependence of magnetoresistance and Hall effect inMg2NiHxfilms. Physical Review B, 2004, 69, .	3.2	32
78	Structural and optical properties ofMg2NiHxswitchable mirrors upon hydrogen loading. Physical Review B, 2004, 70, .	3.2	79
79	Hydrogen-controlled interlayer exchange coupling in Fe/LaHx multilayers. Journal of Magnetism and Magnetic Materials, 2001, 237, 77-89.	2.3	7
80	The fragile magnetic structures of Fe/CeH2â^'Î´ multilayers. Journal of Magnetism and Magnetic Materials, 2000, 210, 357-365.	2.3	4
81	Imprinting artificial magnetic structures (invited). Journal of Applied Physics, 1999, 85, 5873-5876.	2.5	5
82	Imprinted spiral structures as neutron polarizers. Physica B: Condensed Matter, 1999, 267-268, 352-354.	2.7	5
83	Magnetic spiral structures in La/Fe multilayers. Journal of Magnetism and Magnetic Materials, 1999, 198-199, 440-442.	2.3	3
84	Imprinting magnetic structures. Applied Physics Letters, 1998, 72, 2894-2896.	3.3	17
85	Structural and magnetic properties of La/Fe multilayers. Applied Physics A: Materials Science and Processing, 1996, 63, 183-190.	2.3	7
86	TOFTOF: Cold neutron time-of-flight spectrometer. Journal of Large-scale Research Facilities JLSRF, 0, 1, A15.	0.0	42