

Peter Fouquet

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93
papers

2,062
citations

23
h-index

41
g-index

99
ext. papers

2,291
ext. citations

4.7
avg, IF

4.35
L-index

#	Paper	IF	Citations
93	Chiral paramagnetic skyrmion-like phase in MnSi. <i>Physical Review Letters</i> , 2009 , 102, 197202	7.4	219
92	Generalized spin-glass relaxation. <i>Physical Review Letters</i> , 2009 , 102, 097202	7.4	124
91	Ultrahigh-resolution spin-echo measurement of surface potential energy landscapes. <i>Science</i> , 2004 , 304, 1790-3	33.3	84
90	Thermodynamic, structural, and dynamic properties of supercooled water confined in mesoporous MCM-41 studied with calorimetric, neutron diffraction, and neutron spin echo measurements. <i>Journal of Chemical Physics</i> , 2008 , 129, 054702	3.9	82
89	Quasi-Elastic Neutron Scattering Studies on Clay Interlayer-Space Highlighting the Effect of the Cation in Confined Water Dynamics. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 13982-13991	3.8	80
88	The van der Waals potential between metastable atoms and solid surfaces: Novel diffraction experiments vs. theory. <i>Europhysics Letters</i> , 2002 , 59, 357-363	1.6	72
87	Measurement of single-molecule frictional dissipation in a prototypical nanoscale system. <i>Nature Physics</i> , 2009 , 5, 561-564	16.2	68
86	Liquid 1-propanol studied by neutron scattering, near-infrared, and dielectric spectroscopy. <i>Journal of Chemical Physics</i> , 2014 , 140, 124501	3.9	60
85	Anomalous relaxation of self-assembled alkyl nanodomains in high-order poly(n-alkyl methacrylates). <i>Soft Matter</i> , 2008 , 4, 1792	3.6	59
84	Thermal energy He3 spin-echo spectrometer for ultrahigh resolution surface dynamics measurements. <i>Review of Scientific Instruments</i> , 2005 , 76, 053109	1.7	59
83	Interplay between static and dynamic polar correlations in relaxor Pb(Mg _{1/3} Nb _{2/3})O ₃ . <i>Physical Review B</i> , 2010 , 81,	3.3	53
82	Crossover behavior of critical helix fluctuations in MnSi. <i>Physical Review B</i> , 2010 , 81,	3.3	48
81	Hexapole magnet system for thermal energy 3He atom manipulation. <i>Review of Scientific Instruments</i> , 2001 , 72, 3834-3841	1.7	42
80	Observation of microscopic CO dynamics on Cu(001) using 3He spin-echo spectroscopy. <i>Physical Review Letters</i> , 2004 , 93, 156103	7.4	39
79	A benchmark for protein dynamics: Ribonuclease A measured by neutron scattering in a large wavevector-energy transfer range. <i>Chemical Physics</i> , 2008 , 345, 305-314	2.3	37
78	Graphene on Ni(111): Electronic Corrugation and Dynamics from Helium Atom Scattering. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 25983-25990	3.8	36
77	Magnetic fluctuations and correlations in MnSi: Evidence for a chiral skyrmion spin liquid phase. <i>Physical Review B</i> , 2011 , 83,	3.3	36

76	Protein diffusion in crowded electrolyte solutions. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010 , 1804, 68-75	4	35
75	Molecular dynamics simulations of the diffusion of benzene sub-monolayer films on graphite basal plane surfaces. <i>Carbon</i> , 2009 , 47, 2627-2639	10.4	32
74	Bending stiffness of biological membranes: what can be measured by neutron spin echo?. <i>European Physical Journal E</i> , 2013 , 36, 75	1.5	31
73	Diffusion and vibration of CO molecules adsorbed on a Cu(100) surface: A periodic density functional theory study. <i>Journal of Chemical Physics</i> , 2003 , 119, 509-514	3.9	30
72	Low-energy vibrational dynamics of ultrathin organic adlayers: alkanethiols adsorbed on copper. <i>Surface Science</i> , 2000 , 462, 135-142	1.8	29
71	Neutron spin echo measurements of monolayer and capillary condensed water in MCM-41 at low temperatures. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 064101	1.8	23
70	A refined He-LiF(001) potential from selective adsorption resonances measured with high-resolution helium spin-echo spectroscopy. <i>Journal of Chemical Physics</i> , 2007 , 126, 104702	3.9	23
69	Observation of Metallization Transition of 2D Alkali Metal Films. <i>Physical Review Letters</i> , 1999 , 83, 360-363	3.4	23
68	Solitary Magnons in the S=5/2 Antiferromagnet CaFe ₂ O ₄ . <i>Physical Review Letters</i> , 2016 , 117, 017201	1.4	21
67	Quasi-elastic Neutron Scattering Investigation of the Hydrogen Surface Self-Diffusion on Polymer Electrolyte Membrane Fuel Cell Catalyst Support. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 3121-3125	3.8	21
66	Low aberration permanent hexapole magnet for atom and molecular beam research. <i>Review of Scientific Instruments</i> , 2004 , 75, 1963-1970	1.7	21
65	Static and dynamic studies of hydrogen adsorption on nanoporous carbon gels. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 18169-18178	6.7	20
64	Neutron spin-echo studies of hemoglobin and myoglobin: multiscale internal dynamics. <i>Journal of Molecular Biology</i> , 2010 , 397, 423-35	6.5	20
63	Metastable (23S) helium atom scattering from NiO(100) and Cu(100) surfaces. <i>Surface Science</i> , 1998 , 400, 140-154	1.8	20
62	Spin dynamics, short-range order, and spin freezing in Y _{0.5} Ca _{0.5} BaCo ₄ O ₇ . <i>Physical Review B</i> , 2011 , 83,	3.3	19
61	Ground state of the geometrically frustrated compound Tb ₂ Sn ₂ O ₇ . <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 446206	1.8	19
60	Neutron spin-echo investigation of slow spin dynamics in kagome bilayer frustrated magnets as evidence for phonon assisted relaxation in SrCr ₉ Ga _{12-9x} O ₁₉ . <i>Physical Review Letters</i> , 2006 , 97, 047203	7.4	19
59	Nanostructuring of ionic liquids: impact on the cation mobility. A multi-scale study. <i>Nanoscale</i> , 2017 , 9, 1901-1908	7.7	18

58	Hidden magnetic frustration by quantum relaxation in anisotropic Nd langasite. <i>Physical Review Letters</i> , 2008 , 100, 237204	7.4	18
57	Fluctuation dynamics of bilayer vesicles with intermonolayer sliding: experiment and theory. <i>Chemistry and Physics of Lipids</i> , 2015 , 185, 61-77	3.7	17
56	High-resolution neutron scattering study of Tb ₂ Mo ₂ O ₇ : A geometrically frustrated spin glass. <i>Physical Review B</i> , 2010 , 81,	3.3	17
55	The wide-angle neutron spin echo spectrometer project WASP. <i>Journal of Neutron Research</i> , 2007 , 15, 39-47	0.5	17
54	de Gennes slowing in a liquid metal revisited: a neutron spin-echo study. <i>Physical Review E</i> , 2006 , 73, 032202	2.4	16
53	Structure and dynamics investigations of a partially hydrogenated graphene/Ni(111) surface. <i>Carbon</i> , 2017 , 114, 504-510	10.4	15
52	Hindered water motions in hardened cement pastes investigated over broad time and length scales. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 2154-62	9.5	15
51	Mesoscale Dynamics in Melts of Single-Chain Polymeric Nanoparticles. <i>Macromolecules</i> , 2019 , 52, 6935-6942	9.4	14
50	The origin of persistent spin dynamics and residual entropy in the stuffed spin ice Ho ₂ .3Ti1.7O ₇ \square <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 342201	1.8	14
49	Probing cooperative jump-diffusion in zeolites: Neutron spin echo measurements and molecular dynamics simulations of benzene in NaX. <i>Microporous and Mesoporous Materials</i> , 2006 , 90, 307-313	5.3	14
48	Tracking the effects of rigidity percolation down to the liquid state: relaxational dynamics of binary chalcogen melts. <i>Physical Review Letters</i> , 2008 , 100, 245902	7.4	13
47	Measurements of molecule diffusion on surfaces using neutron and helium spin echo. <i>Physica B: Condensed Matter</i> , 2006 , 385-386, 269-271	2.8	13
46	Instrument design and optimization using genetic algorithms. <i>Review of Scientific Instruments</i> , 2006 , 77, 105107	1.7	13
45	Dipolar Spin Ice States with a Fast Monopole Hopping Rate in CdEr ₂ X ₄ (X=Se, S). <i>Physical Review Letters</i> , 2018 , 120, 137201	7.4	12
44	Ionic Liquids: evidence of the viscosity scale-dependence. <i>Scientific Reports</i> , 2017 , 7, 2241	4.9	12
43	Dynamic spin correlations in stuffed spin ice Ho _{2+x} Ti ₂ O ₇ \square <i>Physical Review B</i> , 2008 , 77,	3.3	12
42	Growth and dynamics of ultrathin barium films on Cu(100). <i>Surface Science</i> , 2001 , 473, 227-235	1.8	12
41	Proton Dynamics in Hydrated BaZr _{0.9} Mo _{0.1} O _{2.95} (M = Y and Sc) Investigated with Neutron Spin Echo. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 13963-13969	3.8	12

40	A helium atom scattering study of the adsorption of NO on Pt(111). <i>Journal of Chemical Physics</i> , 2000 , 112, 7600-7605	3.9	10
39	Benzene diffusion on graphite described by a rough hard disk model. <i>Carbon</i> , 2014 , 79, 183-191	10.4	9
38	Orphan Spins in the S=5/2 Antiferromagnet CaFe ₂ O ₄ . <i>Physical Review Letters</i> , 2017 , 119, 257204	7.4	9
37	Ballistic Diffusion in Polyaromatic Hydrocarbons on Graphite. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 5285-5290	6.4	9
36	Diffusion of molecular hydrogen in carbon aerogel. <i>Carbon</i> , 2016 , 98, 572-581	10.4	8
35	Mapping Microstructural Dynamics up to the Nanosecond of the Conjugated Polymer P3HT in the Solid State. <i>Chemistry of Materials</i> , 2019 , 31, 9635-9651	9.6	8
34	Surface Diffusion Studies Using Neutron and Helium Spin-echo Spectroscopy. <i>Zeitschrift Fur Physikalische Chemie</i> , 2010 , 224, 61-81	3.1	8
33	Melts of single-chain nanoparticles: A neutron scattering investigation. <i>Journal of Applied Physics</i> , 2020 , 127, 044305	2.5	7
32	The H5 guide system—the latest innovative guide system at the ILL. <i>Neutron News</i> , 2015 , 26, 11-14	0.4	7
31	The Internal Network Dynamics of Poly(NIPAM) Based Copolymer Micro- and Macro gels: A Comparative Neutron Spin-Echo Study. <i>Zeitschrift Fur Physikalische Chemie</i> , 2014 , 228,	3.1	7
30	Global optimization of an entire neutron guide hall. <i>Journal of Applied Crystallography</i> , 2011 , 44, 483-488	3.8	7
29	Questions arising for future surface diffusion studies using scattering techniques—the case of benzene diffusion on graphite basal plane surfaces. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 304014	1.8	7
28	Dopant Concentration and Short-Range Structure Dependence of Diffusional Proton Dynamics in Hydrated Ba _x Zr _{1-x} O ₃ /2 (x = 0.10 and 0.50). <i>Journal of Physical Chemistry C</i> , 2010 , 114, 3292-3296	3.8	7
27	Slow and static spin correlations in Dy(2 + x)Ti(2 - x)O(7 - x). <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 164220	1.8	7
26	Ultrafast molecular transport on carbon surfaces: The diffusion of ammonia on graphite. <i>Carbon</i> , 2018 , 126, 23-30	10.4	6
25	Role of Dynamic Asymmetry on the Collective Dynamics of Comblike Polymers: Insights from Neutron Spin-Echo Experiments and Coarse-Grained Molecular Dynamics Simulations. <i>Macromolecules</i> , 2016 , 49, 4989-5000	5.5	6
24	Monitoring of electronic poisoning of ultrathin alkali metal films by oxygen and carbon monoxide adsorption. <i>Surface Science</i> , 2000 , 454-456, 256-261	1.8	6
23	Modulation of hemoglobin dynamics by an allosteric effector. <i>Protein Science</i> , 2017 , 26, 505-514	6.3	5

22	The application of quasi-elastic neutron scattering techniques (QENS) in surface diffusion studies. <i>European Physical Journal: Special Topics</i> , 2012 , 213, 149-163	2.3	5
21	Low energy spin dynamics in the spin ice Ho ₂ Sn ₂ O ₇ . <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 076008		5
20	METASTABLE (23S) HELIUM ATOM SCATTERING FROM MOLECULAR ADSORBATES ON Pd AND Cu SURFACES. <i>Surface Review and Letters</i> , 1999 , 06, 103-107	1.1	5
19	Motion of water monomers reveals a kinetic barrier to ice nucleation on graphene. <i>Nature Communications</i> , 2021 , 12, 3120	17.4	5
18	From a one-dimensional crystal to a one-dimensional liquid: A comprehensive dynamical study of C60 peapods. <i>Physical Review B</i> , 2013 , 87,	3.3	4
17	Collective Motions and Mechanical Response of a Bulk of Single-Chain Nano-Particles Synthesized by Click-Chemistry. <i>Polymers</i> , 2020 , 13,	4.5	4
16	Transverse and longitudinal spin-fluctuations in INVAR FeNi. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 025802	1.8	3
15	The structure of deuterated benzene films adsorbed on the graphite (0001) basal plane: what happens below and above the monolayer coverage?. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 22116-21	2.6	3
14	Design and experimental tests of a novel neutron spin analyzer for wide angle spin echo spectrometers. <i>Review of Scientific Instruments</i> , 2009 , 80, 095105	1.7	3
13	Evidence for two disparate spin dynamic regimes within Fe-substituted La _{0.7} Pb _{0.3} (Mn _{1-x} Fe _x)O ₃ (0 ≤ x ≤ 0.2) colossal magnetoresistive manganites: Neutron spin-echo measurements. <i>Physical Review B</i> , 2007 , 76,	3.3	3
12	Metallization and demetallization of clean and oxygen-covered ultrathin alkali metal films on GaAs(1 0 0). <i>Applied Surface Science</i> , 2001 , 180, 286-292	6.7	3
11	A theoretical study of rotational and translational diffusion dynamics of molecules with a six-fold point symmetry adsorbed on a hexagonal lattice by neutron scattering. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 104007	1.8	2
10	Neutron spectroscopy study of the diffusivity of hydrogen in MoS. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 7961-7973	3.6	2
9	Permeability modes in fluctuating lipid membranes with DNA-translocating pores. <i>Advances in Colloid and Interface Science</i> , 2017 , 247, 543-554	14.3	1
8	Dynamical scaling and critical scattering in pure and disordered ferromagnets probed by NSE. <i>Physica B: Condensed Matter</i> , 2007 , 397, 102-104	2.8	1
7	Ultra-fast diffusion of hydrogen in a novel mesoporous N-doped carbon. <i>Carbon</i> , 2020 , 166, 307-315	10.4	1
6	Metastable antiphase boundary ordering in CaFe ₂ O ₄ . <i>Physical Review B</i> , 2021 , 104,	3.3	1
5	A neutron spin echo study of low-temperature water confined in the spherical silica pores of SBA-16. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 10502-10510	3.6	

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| 4 | Neutron Scattering in Brazil and Argentina. <i>Neutron News</i> , 2014 , 25, 2-2 | 0.4 |
| 3 | Characteristics of the magnetic order in CeCu ₂ Si ₂ revealed by neutron spin-echo measurements. <i>Journal of Physics: Conference Series</i> , 2010 , 200, 012009 | 0.3 |
| 2 | Neutron spin-echo on magnetic single crystals in the quantum limit. <i>Physica B: Condensed Matter</i> , 2007 , 397, 95-98 | 2.8 |
| 1 | Phonon-assisted relaxation in a frustrated antiferromagnet. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 310, 1325-1327 | 2.8 |