

# Peter Fouquet

## List of Publications by Year in Descending Order

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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	Motion of water monomers reveals a kinetic barrier to ice nucleation on graphene. <i>Nature Communications</i> , <b>2021</b> , 12, 3120	17.4	5
92	Neutron spectroscopy study of the diffusivity of hydrogen in MoS. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 7961-7973	3.6	2
91	Metastable antiphase boundary ordering in CaFe <sub>2</sub> O <sub>4</sub> . <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	1
90	Melts of single-chain nanoparticles: A neutron scattering investigation. <i>Journal of Applied Physics</i> , <b>2020</b> , 127, 044305	2.5	7
89	Collective Motions and Mechanical Response of a Bulk of Single-Chain Nano-Particles Synthesized by Click-Chemistry. <i>Polymers</i> , <b>2020</b> , 13,	4.5	4
88	Ultra-fast diffusion of hydrogen in a novel mesoporous N-doped carbon. <i>Carbon</i> , <b>2020</b> , 166, 307-315	10.4	1
87	Mesoscale Dynamics in Melts of Single-Chain Polymeric Nanoparticles. <i>Macromolecules</i> , <b>2019</b> , 52, 6935-6942	9.4	14
86	Static and dynamic studies of hydrogen adsorption on nanoporous carbon gels. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 18169-18178	6.7	20
85	Transverse and longitudinal spin-fluctuations in INVAR FeNi. <i>Journal of Physics Condensed Matter</i> , <b>2019</b> , 31, 025802	1.8	3
84	Mapping Microstructural Dynamics up to the Nanosecond of the Conjugated Polymer P3HT in the Solid State. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 9635-9651	9.6	8
83	Dipolar Spin Ice States with a Fast Monopole Hopping Rate in CdEr <sub>2</sub> X <sub>4</sub> (X=Se, S). <i>Physical Review Letters</i> , <b>2018</b> , 120, 137201	7.4	12
82	Ultrafast molecular transport on carbon surfaces: The diffusion of ammonia on graphite. <i>Carbon</i> , <b>2018</b> , 126, 23-30	10.4	6
81	A neutron spin echo study of low-temperature water confined in the spherical silica pores of SBA-16. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 10502-10510	3.6	
80	Nanostructuring of ionic liquids: impact on the cation mobility. A multi-scale study. <i>Nanoscale</i> , <b>2017</b> , 9, 1901-1908	7.7	18
79	Structure and dynamics investigations of a partially hydrogenated graphene/Ni(111) surface. <i>Carbon</i> , <b>2017</b> , 114, 504-510	10.4	15
78	Modulation of hemoglobin dynamics by an allosteric effector. <i>Protein Science</i> , <b>2017</b> , 26, 505-514	6.3	5
77	Permeability modes in fluctuating lipid membranes with DNA-translocating pores. <i>Advances in Colloid and Interface Science</i> , <b>2017</b> , 247, 543-554	14.3	1

76	Ionic Liquids: evidence of the viscosity scale-dependence. <i>Scientific Reports</i> , <b>2017</b> , 7, 2241	4.9	12
75	Orphan Spins in the S=5/2 Antiferromagnet CaFe <sub>2</sub> O <sub>4</sub> . <i>Physical Review Letters</i> , <b>2017</b> , 119, 257204	7.4	9
74	Solitary Magnons in the S=5/2 Antiferromagnet CaFe <sub>2</sub> O <sub>4</sub> . <i>Physical Review Letters</i> , <b>2016</b> , 117, 017201	7.4	21
73	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> , <b>2016</b> , 49, 4989-5000	5.5	6
72	Diffusion of molecular hydrogen in carbon aerogel. <i>Carbon</i> , <b>2016</b> , 98, 572-581	10.4	8
71	Ballistic Diffusion in Polyaromatic Hydrocarbons on Graphite. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 5285-5290	6.4	9
70	Proton Dynamics in Hydrated BaZr <sub>0.9</sub> M <sub>0.1</sub> O <sub>2.95</sub> (M = Y and Sc) Investigated with Neutron Spin Echo. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 13963-13969	3.8	12
69	Graphene on Ni(111): Electronic Corrugation and Dynamics from Helium Atom Scattering. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 25983-25990	3.8	36
68	The H5 guide system—the latest innovative guide system at the ILL. <i>Neutron News</i> , <b>2015</b> , 26, 11-14	0.4	7
67	Fluctuation dynamics of bilayer vesicles with intermonolayer sliding: experiment and theory. <i>Chemistry and Physics of Lipids</i> , <b>2015</b> , 185, 61-77	3.7	17
66	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> , <b>2014</b> , 16, 22116-22121	3.6	3
65	Benzene diffusion on graphite described by a rough hard disk model. <i>Carbon</i> , <b>2014</b> , 79, 183-191	10.4	9
64	Neutron Scattering in Brazil and Argentina. <i>Neutron News</i> , <b>2014</b> , 25, 2-2	0.4	
63	Liquid 1-propanol studied by neutron scattering, near-infrared, and dielectric spectroscopy. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 124501	3.9	60
62	The Internal Network Dynamics of Poly(NIPAM) Based Copolymer Micro- and Macrogels: A Comparative Neutron Spin-Echo Study. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2014</b> , 228,	3.1	7
61	Bending stiffness of biological membranes: what can be measured by neutron spin echo?. <i>European Physical Journal E</i> , <b>2013</b> , 36, 75	1.5	31
60	From a one-dimensional crystal to a one-dimensional liquid: A comprehensive dynamical study of C60 peapods. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	4
59	The application of quasi-elastic neutron scattering techniques (QENS) in surface diffusion studies. <i>European Physical Journal: Special Topics</i> , <b>2012</b> , 213, 149-163	2.3	5

58	Low energy spin dynamics in the spin ice Ho <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> . <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 076008		5
57	Neutron spin echo measurements of monolayer and capillary condensed water in MCM-41 at low temperatures. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 064101	1.8	23
56	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> , <b>2012</b> , 24, 104007	1.8	2
55	Spin dynamics, short-range order, and spin freezing in Y <sub>0.5</sub> Ca <sub>0.5</sub> BaCo <sub>4</sub> O <sub>7</sub> . <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	19
54	Global optimization of an entire neutron guide hall. <i>Journal of Applied Crystallography</i> , <b>2011</b> , 44, 483-488	3.8	7
53	Slow and static spin correlations in Dy <sub>(2+x)</sub> Ti <sub>(2-x)</sub> O <sub>(7-<math>\eta</math>)</sub> . <i>Journal of Physics Condensed Matter</i> , <b>2011</b> , 23, 164220	1.8	7
52	Magnetic fluctuations and correlations in MnSi: Evidence for a chiral skyrmion spin liquid phase. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	36
51	Interplay between static and dynamic polar correlations in relaxor Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> . <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	53
50	High-resolution neutron scattering study of Tb <sub>2</sub> Mo <sub>2</sub> O <sub>7</sub> : A geometrically frustrated spin glass. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	17
49	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> , <b>2010</b> , 22, 304014	1.8	7
48	Crossover behavior of critical helix fluctuations in MnSi. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	48
47	Dopant Concentration and Short-Range Structure Dependence of Diffusional Proton Dynamics in Hydrated BaIn <sub>x</sub> Zr <sub>(1-x)</sub> O <sub>3</sub> (x = 0.10 and 0.50). <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 3292-3296	3.8	7
46	Neutron spin-echo studies of hemoglobin and myoglobin: multiscale internal dynamics. <i>Journal of Molecular Biology</i> , <b>2010</b> , 397, 423-35	6.5	20
45	Characteristics of the magnetic order in CeCu <sub>2</sub> Si <sub>2</sub> revealed by neutron spin-echo measurements. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 200, 012009	0.3	
44	Surface Diffusion Studies Using Neutron and Helium Spin-echo Spectroscopy. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2010</b> , 224, 61-81	3.1	8
43	Protein diffusion in crowded electrolyte solutions. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2010</b> , 1804, 68-75	4	35
42	Design and experimental tests of a novel neutron spin analyzer for wide angle spin echo spectrometers. <i>Review of Scientific Instruments</i> , <b>2009</b> , 80, 095105	1.7	3
41	Measurement of single-molecule frictional dissipation in a prototypical nanoscale system. <i>Nature Physics</i> , <b>2009</b> , 5, 561-564	16.2	68

40	Molecular dynamics simulations of the diffusion of benzene sub-monolayer films on graphite basal plane surfaces. <i>Carbon</i> , <b>2009</b> , 47, 2627-2639	10.4	32
39	Chiral paramagnetic skyrmion-like phase in MnSi. <i>Physical Review Letters</i> , <b>2009</b> , 102, 197202	7.4	219
38	Generalized spin-glass relaxation. <i>Physical Review Letters</i> , <b>2009</b> , 102, 097202	7.4	124
37	Hindered water motions in hardened cement pastes investigated over broad time and length scales. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2009</b> , 1, 2154-62	9.5	15
36	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> , <b>2008</b> , 129, 054702	3.9	82
35	Anomalous relaxation of self-assembled alkyl nanodomains in high-order poly(n-alkyl methacrylates). <i>Soft Matter</i> , <b>2008</b> , 4, 1792	3.6	59
34	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> , <b>2008</b> , 112, 13982-13991	3.8	80
33	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> , <b>2008</b> , 112, 3121-3125	3.8	21
32	Dynamic spin correlations in stuffed spin ice Ho <sub>2</sub> +xTi <sub>2</sub> O <sub>7</sub> . <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	12
31	Tracking the effects of rigidity percolation down to the liquid state: relaxational dynamics of binary chalcogen melts. <i>Physical Review Letters</i> , <b>2008</b> , 100, 245902	7.4	13
30	Hidden magnetic frustration by quantum relaxation in anisotropic Nd langasite. <i>Physical Review Letters</i> , <b>2008</b> , 100, 237204	7.4	18
29	A benchmark for protein dynamics: Ribonuclease A measured by neutron scattering in a large wavevector-energy transfer range. <i>Chemical Physics</i> , <b>2008</b> , 345, 305-314	2.3	37
28	Dynamical scaling and critical scattering in pure and disordered ferromagnets probed by NSE. <i>Physica B: Condensed Matter</i> , <b>2007</b> , 397, 102-104	2.8	1
27	Neutron spin-echo on magnetic single crystals in the quantum limit. <i>Physica B: Condensed Matter</i> , <b>2007</b> , 397, 95-98	2.8	
26	Phonon-assisted relaxation in a frustrated antiferromagnet. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2007</b> , 310, 1325-1327	2.8	
25	A refined He-LiF(001) potential from selective adsorption resonances measured with high-resolution helium spin-echo spectroscopy. <i>Journal of Chemical Physics</i> , <b>2007</b> , 126, 104702	3.9	23
24	The wide-angle neutron spin echo spectrometer project WASP. <i>Journal of Neutron Research</i> , <b>2007</b> , 15, 39-47	0.5	17
23	Ground state of the geometrically frustrated compound Tb <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> . <i>Journal of Physics Condensed Matter</i> , <b>2007</b> , 19, 446206	1.8	19

22	Evidence for two disparate spin dynamic regimes within Fe-substituted $\text{La}_{0.7}\text{Pb}_{0.3}(\text{Mn}_{1-x}\text{Fe}_x)\text{O}_3$ ( $0 \leq x \leq 0.2$ ) colossal magnetoresistive manganites: Neutron spin-echo measurements. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	3
21	The origin of persistent spin dynamics and residual entropy in the stuffed spin ice $\text{Ho}_{2.3}\text{Ti}_{1.7}\text{O}_7$ . <i>Journal of Physics Condensed Matter</i> , <b>2007</b> , 19, 342201	1.8	14
20	Measurements of molecule diffusion on surfaces using neutron and helium spin echo. <i>Physica B: Condensed Matter</i> , <b>2006</b> , 385-386, 269-271	2.8	13
19	Instrument design and optimization using genetic algorithms. <i>Review of Scientific Instruments</i> , <b>2006</b> , 77, 105107	1.7	13
18	de Gennes slowing in a liquid metal revisited: a neutron spin-echo study. <i>Physical Review E</i> , <b>2006</b> , 73, 032202	2.4	16
17	Neutron spin-echo investigation of slow spin dynamics in kagome bilayer frustrated magnets as evidence for phonon assisted relaxation in $\text{SrCr}_9\text{Ga}_{12-9x}\text{O}_{19}$ . <i>Physical Review Letters</i> , <b>2006</b> , 97, 047203	7.4	19
16	Probing cooperative jump-diffusion in zeolites: Neutron spin-echo measurements and molecular dynamics simulations of benzene in NaX. <i>Microporous and Mesoporous Materials</i> , <b>2006</b> , 90, 307-313	5.3	14
15	Thermal energy He3 spin-echo spectrometer for ultrahigh resolution surface dynamics measurements. <i>Review of Scientific Instruments</i> , <b>2005</b> , 76, 053109	1.7	59
14	Observation of microscopic CO dynamics on Cu(001) using $^3\text{He}$ spin-echo spectroscopy. <i>Physical Review Letters</i> , <b>2004</b> , 93, 156103	7.4	39
13	Low aberration permanent hexapole magnet for atom and molecular beam research. <i>Review of Scientific Instruments</i> , <b>2004</b> , 75, 1963-1970	1.7	21
12	Ultrahigh-resolution spin-echo measurement of surface potential energy landscapes. <i>Science</i> , <b>2004</b> , 304, 1790-3	33.3	84
11	Diffusion and vibration of CO molecules adsorbed on a Cu(100) surface: A periodic density functional theory study. <i>Journal of Chemical Physics</i> , <b>2003</b> , 119, 509-514	3.9	30
10	The van der Waals potential between metastable atoms and solid surfaces: Novel diffraction experiments vs. theory. <i>Europhysics Letters</i> , <b>2002</b> , 59, 357-363	1.6	72
9	Metallization and demetallization of clean and oxygen-covered ultrathin alkali metal films on GaAs(1 0 0). <i>Applied Surface Science</i> , <b>2001</b> , 180, 286-292	6.7	3
8	Hexapole magnet system for thermal energy $^3\text{He}$ atom manipulation. <i>Review of Scientific Instruments</i> , <b>2001</b> , 72, 3834-3841	1.7	42
7	Growth and dynamics of ultrathin barium films on Cu(100). <i>Surface Science</i> , <b>2001</b> , 473, 227-235	1.8	12
6	Monitoring of electronic poisoning of ultrathin alkali metal films by oxygen and carbon monoxide adsorption. <i>Surface Science</i> , <b>2000</b> , 454-456, 256-261	1.8	6
5	Low-energy vibrational dynamics of ultrathin organic adlayers: alkanethiols adsorbed on copper. <i>Surface Science</i> , <b>2000</b> , 462, 135-142	1.8	29

4	A helium atom scattering study of the adsorption of NO on Pt(111). <i>Journal of Chemical Physics</i> , <b>2000</b> , 112, 7600-7605	3.9	10
3	METASTABLE (23S) HELIUM ATOM SCATTERING FROM MOLECULAR ADSORBATES ON Pd AND Cu SURFACES. <i>Surface Review and Letters</i> , <b>1999</b> , 06, 103-107	1.1	5
2	Observation of Metallization Transition of 2D Alkali Metal Films. <i>Physical Review Letters</i> , <b>1999</b> , 83, 360-363	3.4	23
1	Metastable (23S) helium atom scattering from NiO(100) and Cu(100) surfaces. <i>Surface Science</i> , <b>1998</b> , 400, 140-154	1.8	20