

# Stephane Raymond

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9620850/publications.pdf>

Version: 2024-02-01

146  
papers

3,288  
citations

147801

31  
h-index

197818

49  
g-index

151  
all docs

151  
docs citations

151  
times ranked

2650  
citing authors

#	ARTICLE	IF	CITATIONS
1	Complex magnetic structure and spin waves of the noncollinear antiferromagnet $\text{Mn}_5\text{Si}_2\text{Te}_8$ . Physical Review B, 2022, 105, .		
2	NMR evidence against a spin-nematic nature of the presaturation phase in the frustrated magnet $\text{SrZnVO}_4$ . Physical Review B, 2022, 105, .	3.2	4
3	Spin dynamics in the square-lattice cupola system $\text{BaTiO}_3$ with a large electric polarization. Physical Review B, 2022, 105, .	3.2	0
4	Spin waves in the collinear antiferromagnetic phase of $\text{Mn}_2\text{Te}$ . Physical Review B, 2021, 103, .	3.5	0
5	Impact of temperature and mode polarization on the acoustic phonon range in complex crystalline phases: A case study on intermetallic clathrates. Physical Review Research, 2021, 3, .	3.6	3
6	Inelastic neutron scattering determination of the spin Hamiltonian for $\text{BaCdVO}(\text{PO}_4)_2$ . Physical Review B, 2021, 103, .	3.2	5
7	Evidence for an electromagnon in $\text{GdMn}_2\text{O}_5$ : A multiferroic with a large electric polarization. Spin Dynamics and Unconventional Coulomb Phase in $\text{GdMn}_2\text{O}_5$ . Physical Review Letters, 2021, 126, 247201.	3.2	5
8	Spin dynamics of the quantum dipolar magnet $\text{Nd}_2\text{Cu}_2\text{O}_7$ . Physical Review Letters, 2021, 126, 247201.	3.2	0
9	Spin dynamics of the quantum dipolar magnet $\text{Yb}_3\text{O}_{12}$ in an external field. Physical Review B, 2021, 104, .	3.2	7
10	Low-dimensional antiferromagnetic fluctuations in the heavy-fermion paramagnetic ladder compound $\text{UTe}_2$ . Physical Review B, 2021, 104, .	3.2	44
11	Feedback of Superconductivity on the Magnetic Excitation Spectrum of $\text{UTe}_2$ . Journal of the Physical Society of Japan, 2021, 90, .	1.6	17
12	Solitonic excitations in the Ising anisotropic chain $\text{BaCo}_2\text{V}_2\text{O}_8$ under large anisotropy and temperature dependence of the spin-wave stiffness. Physical Review B, 2020, 102, .	3.6	4
13	Anisotropy and temperature dependence of the spin-wave stiffness in $\text{Nd}_2\text{Cu}_2\text{O}_7$ : An inelastic neutron scattering investigation. Physical Review B, 2020, 102, .	3.2	7
14	Direct evidence of weakly dispersed and strongly anharmonic optical phonons in hybrid perovskites. Communications Physics, 2020, 3, .	5.3	49
15	Evolution of Magnetic Order from the Localized to the Itinerant Limit. Physical Review Letters, 2019, 123, 097201.	7.8	5
16	Magnetic structure and spin waves in the frustrated ferro-antiferromagnet $\text{Pb}_2\text{VO}(\text{PO}_4)_2$ . Physical Review B, 2019, 99, .	3.2	11
17	Total interference between nuclear and magnetovibrational one-phonon scattering cross sections. Journal of Physics: Conference Series, 2019, 1316, 012018.	0.4	0
18	Presaturation phase with no dipolar order in a quantum ferro-antiferromagnet. Physical Review Research, 2019, 1, .	3.6	13

#	ARTICLE	IF	CITATIONS
19	Distinct domain switching in Nd <sub>0.05</sub> Ce <sub>0.95</sub> CoIn <sub>5</sub> at low and high fields. Scientific Reports, 2018, 8, 1295.	3.3	3
20	Manifolds of magnetic ordered states and excitations in the almost Heisenberg pyrochlore antiferromagnet $\text{MgCr}_2\text{O}_4$ . Physical Review B, 2018, 97, .	3.2	14
21	Spin Fluctuations Drive the Inverse Magnetocaloric Effect in $\text{Mn}_5\text{Si}_8$ . Physical Review Letters, 2018, 120, 257205.	7.8	25
22	Topological quantum phase transition in the Ising-like antiferromagnetic spin chain BaCo <sub>2</sub> V <sub>2</sub> O <sub>8</sub> . Nature Physics, 2018, 14, 716-722.	16.7	66
23	Elastic Softness of Hybrid Lead Halide Perovskites. Physical Review Letters, 2018, 121, 085502.	7.8	116
24	Field-induced magnetic instability within a superconducting condensate. Science Advances, 2017, 3, e1602055.	10.3	11
25	Spin dynamics of the magnetocaloric compound $\text{MnFe}_4\text{O}_{14}$ . Physical Review B, 2017, 96, .	3.2	14
26	Spin Resonance and Magnetic Order in an Unconventional Superconductor. Physical Review Letters, 2017, 119, 187002.	7.8	10
27	3d-4f coupling and multiferroicity in frustrated Cairo Pentagonal oxide DyMn <sub>2</sub> O <sub>5</sub> . Scientific Reports, 2017, 7, 14506.	3.3	19
28	Magnetic and dielectric order in the kagomelike francisite $\text{Cu}_3\text{OCl}$ . Physical Review B, 2017, 96, .	3.2	30
29	The upgrade of the cold neutron three-axis spectrometer IN12 at the ILL. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 819, 89-98.	1.6	25
30	Experimental realization of long-distance entanglement between spins in antiferromagnetic quantum spin chains. Nature Physics, 2015, 11, 255-260.	16.7	99
31	Evidence for Coexistence of Bulk Superconductivity and Itinerant Antiferromagnetism in the Heavy Fermion System $\text{CeCo}(\text{In}_{1-x}\text{Cd}_x)_5$ . Scientific Reports, 2015, 5, 12528.	3.3	14
32	Ising Incommensurate Spin Resonance of $\text{CeCoIn}_5$ . A Dynamical Precursor of the $\text{Q}$ -Phase. Physical Review Letters, 2015, 115, 037001.	3.3	38
33	Switching of the magnetic order in $\text{BaCo}_2\text{V}_2\text{O}_8$ . Physical Review Letters, 2015, 114, 017201.	7.8	67
34	Lattice dynamics of the heavy-fermion compound $\text{URu}_2\text{Si}_2$ . Physical Review B, 2015, 91, .	3.2	11
35	Neutron scattering studies on $\text{URu}_2\text{Si}_2$ . Philosophical Magazine, 2014, 94, 3702-3722.	1.6	26
36	Switching of the magnetic order in $\text{CeRhIn}_5$ and $\text{Sn}_x\text{Ce}_{1-x}\text{RhIn}_5$ in the vicinity of its quantum critical point. Physical Review B, 2014, 90, .	3.2	11

#	ARTICLE	IF	CITATIONS
37	Magnetic-field-enhanced antiferromagnetism in the noncentrosymmetric heavy-fermion superconductor CePt3Si. Physical Review B, 2014, 89, .	3.2	2
38	Magnetic Order in Ce <sub>0.95</sub> Nd <sub>0.05</sub> CoIn <sub>5</sub> : The Q-Phase at Zero Magnetic Field. Journal of the Physical Society of Japan, 2014, 83, 013707.	1.6	30
39	Quantum Criticality and Lifshitz Transition in the Ising System CeRu2Si2: Comparison with YbRh2Si2. Journal of the Physical Society of Japan, 2014, 83, 061002.	1.6	10
40	Magnetic excitations. <i>Annales de la Société Française de la Neutronique</i> , 2014, 13, 02003.	0.2	1
41	Field-Induced Order in Heavy-Fermion Compound YbCo2Zn20. , 2014, , .		0
42	Polarized Neutron on URu2Si2. Physics Procedia, 2013, 42, 4-9.	1.2	2
43	Evidence for Three Fluctuation Channels in the Spin Resonance of the Unconventional Superconductor CeCoIn5. Physical Review Letters, 2012, 109, 237210.	7.8	21
44	Effects of impurities in CeCoIn <sub>5</sub> using inelastic neutron scattering. Journal of Physics: Conference Series, 2012, 340, 012073.	0.4	0
45	Decoupling between Field-Instabilities of Antiferromagnetism and Pseudo-Metamagnetism in Rh-Doped CeRu <sub>2</sub> Si <sub>2</sub> Kondo Lattice. Journal of the Physical Society of Japan, 2012, 81, 034711.	1.6	25
46	Evolution of the Spin Resonance of CeCoIn <sub>5</sub> as a Function of Magnetic Field and La Substitution. Journal of the Physical Society of Japan, 2011, 80, SB023.	1.6	5
47	Antiferromagnetism and Superconductivity in CeRhIn <sub>5</sub> . Journal of the Physical Society of Japan, 2011, 80, SA001.	1.6	25
48	Effects of nonmagnetic La impurities on the spin resonance of Ce <sub>1-x</sub> La <sub>x</sub> CoIn <sub>5</sub> single crystals as seen via inelastic neutron scattering. Physical Review B, 2011, 84, .	3.2	9
49	Understanding the Complex Phase Diagram of Uranium: The Role of Electron-Phonon Coupling. Physical Review Letters, 2011, 107, 136401.	7.8	47
50	Magnetic properties of URu <sub>2</sub> Si <sub>2</sub> under uniaxial stress by neutron scattering. Physical Review B, 2011, 84, 014401.	3.2	27
51	Pressure-Induced Valence Crossover in Superconducting CeCu <sub>2</sub> Si <sub>2</sub> . Physical Review Letters, 2011, 106, 186405.	7.8	72
52	Suppression of hidden order in URu <sub>2</sub> Si <sub>2</sub> under pressure and restoration in magnetic field. Journal of Physics: Conference Series, 2010, 251, 012001.	0.4	5
53	Convergence of the Enhancement of the Effective Mass Under Pressure and Magnetic Field in Heavy-Fermion Compounds: CeRu2Si2, CeRh2Si2, and CeIn3. Journal of Low Temperature Physics, 2010, 161, 83-97.	1.4	17
54	Quantum criticality of Ce <sub>1-x</sub> La <sub>x</sub> Ru <sub>2</sub> Si <sub>2</sub> : The magnetically ordered phase. Physica Status Solidi (B): Basic Research, 2010, 247, 700-702.	1.5	3



#	ARTICLE	IF	CITATIONS
73	Further Analysis of the Quantum Critical Point of Ce <sub>1-x</sub> La <sub>x</sub> Ru <sub>2</sub> Si <sub>2</sub> . Journal of Low Temperature Physics, 2007, 147, 215-230.	1.4	8
74	Phonons in UCoGa <sub>5</sub> . Physica B: Condensed Matter, 2006, 378-380, 1003-1004.	2.7	11
75	Inelastic neutron scattering study on low-energy excitations of the heavy-fermion superconductor PrOs <sub>4</sub> Sb <sub>12</sub> . Physica B: Condensed Matter, 2006, 385-386, 82-84.	2.7	4
76	Magnetism and superconductivity of heavy fermion matter. Comptes Rendus Physique, 2006, 7, 22-34.	0.9	22
77	Probing the Coulomb Interaction of the Unconventional Superconductor PuCoGa <sub>5</sub> by Phonon Spectroscopy. Physical Review Letters, 2006, 96, 237003.	7.8	30
78	Phonon spectrum of the ferromagnetic superconductor UGe <sub>2</sub> and consequences for its specific heat. Physical Review B, 2006, 73, .	3.2	7
79	Quantum Critical Point of an Itinerant Antiferromagnet in a Heavy Fermion. Physical Review Letters, 2006, 96, 016401.	7.8	33
80	Artificial scaling laws of the dynamical magnetic susceptibility in heavy-fermion systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 341, 251-255.	2.1	2
81	Low-energy spin fluctuations in the heavy-fermion compound CeLaRuSi. Physica B: Condensed Matter, 2005, 359-361, 38-40.	2.7	2
82	Magnetic excitations in the heavy-fermion superconductor. Physica B: Condensed Matter, 2005, 359-361, 898-900.	2.7	3
83	Probing the (p,T) phase diagram of CeFe <sub>2</sub> and SmS using resonant x-ray scattering. Journal of Physics Condensed Matter, 2005, 17, S3149-S3154.	1.8	0
84	Structural and electronic transitions in the low-temperature, high-pressure phase of SmS. Physical Review B, 2005, 71, .	3.2	46
85	Neutron diffraction study under pressure of the heavy-fermion compound CePd <sub>2</sub> Si <sub>2</sub> . Physical Review B, 2005, 71, .	3.2	17
86	Direct Observation of Quadrupolar Excitons in the Heavy-Fermion Superconductor PrOs <sub>4</sub> Sb <sub>12</sub> . Physical Review Letters, 2005, 95, 107003.	7.8	107
87	An inelastic neutron scattering study of single-crystal heavy-fermion YbAgGe. Journal of Physics Condensed Matter, 2005, 17, 301-311.	1.8	23
88	Anomalous scaling behavior of the dynamical spin susceptibility of Ce <sub>0.925</sub> La <sub>0.075</sub> Ru <sub>2</sub> Si <sub>2</sub> . Physical Review B, 2004, 70, .	3.2	37
89	De Haas-van Alphen effect study of CePd <sub>2</sub> Si <sub>2</sub> . Physica B: Condensed Matter, 2004, 346-347, 310-313.	2.7	3
90	Pressure dependence of magnetic transitions in URu <sub>2</sub> Si <sub>2</sub> . Physica B: Condensed Matter, 2004, 350, E179-E181.	2.7	20

#	ARTICLE	IF	CITATIONS
91	Polarization analysis of the inelastic magnetic scattering in Sr <sub>2</sub> RuO <sub>4</sub> . Physica B: Condensed Matter, 2004, 350, E203-E205.	2.7	1
92	UFOâ€™a multi-analyser option for IN12. Physica B: Condensed Matter, 2004, 350, E849-E851.	2.7	7
93	Phase diagram of heavy fermion systems. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 27-31.	2.3	24
94	Magnetic ordering in a distorted S= pyrochlore antiferromagnet. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 850-851.	2.3	14
95	High magnetic field study of CePd <sub>2</sub> Si <sub>2</sub> . Journal of Magnetism and Magnetic Materials, 2004, 272-276, E33-E34.	2.3	1
96	Spin dynamics of the ferromagnetic superconductor UGe <sub>2</sub> . Physica B: Condensed Matter, 2004, 350, 33-35.	2.7	13
97	Polarization dependence of spin excitations in BaCu <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> . Physical Review B, 2003, 67, .	3.2	22
98	Magnetic Excitations in the Ferromagnetic Superconductor UGe <sub>2</sub> . Physical Review Letters, 2003, 91, 207201.	7.8	50
99	Spin fluctuations and non-Fermi-liquid behavior of CeNi <sub>2</sub> Ge <sub>2</sub> . Physical Review B, 2003, 68, .	3.2	22
100	High magnetic field study of CePd <sub>2</sub> Si <sub>2</sub> . Physical Review B, 2003, 67, .	3.2	56
101	Study of low-energy magnetic excitations in single-crystalline CeIn <sub>3</sub> by inelastic neutron scattering. Journal of Physics Condensed Matter, 2003, 15, 3741-3749.	1.8	51
102	Phonon anomalies at the valence transition of SmS: An inelastic x-ray-scattering study under pressure. Physical Review B, 2002, 66, .	3.2	22
103	Magnetic excitations in the normal and superconducting states of Sr <sub>2</sub> RuO <sub>4</sub> . Physical Review B, 2002, 65, .	3.2	28
104	Observation of linear spin wave dispersion in the reentrant spin glass Fe <sub>0.7</sub> Al <sub>0.3</sub> . Applied Physics A: Materials Science and Processing, 2002, 74, s859-s861.	2.3	0
105	Pressure tuning through the magnetic instability of CePd <sub>2</sub> Si <sub>2</sub> . Physica B: Condensed Matter, 2002, 312-313, 418-419.	2.7	2
106	Quantum melting of a spin density-wave under pressure: an inelastic neutron scattering study of Ce <sub>0.87</sub> La <sub>0.13</sub> Ru <sub>2</sub> Si <sub>2</sub> . Physica B: Condensed Matter, 2002, 312-313, 431-432.	2.7	1
107	Itinerant metamagnetism of CeRu <sub>2</sub> Si <sub>2</sub> : bringing out the dead. Comparison with the new Sr <sub>3</sub> Ru <sub>2</sub> O <sub>7</sub> case. Physica B: Condensed Matter, 2002, 319, 251-261.	2.7	70
108	Anomalous lattice properties of the heavy fermion compound CeRu <sub>2</sub> Si <sub>2</sub> : an X-ray scattering investigation. Solid State Communications, 2001, 118, 473-477.	1.9	12



#	ARTICLE	IF	CITATIONS
109	Title is missing!. Journal of Low Temperature Physics, 2001, 122, 591-604.	1.4	27
110	Magnetic and superconducting quantum critical points of heavy-fermion systems. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 17-22.	2.3	9
111	Quantum and classical dynamics in mixed-spin one-dimensional antiferromagnets. Journal of Physics Condensed Matter, 2001, 13, R525-R536.	1.8	26
112	Further pressure studies around the magnetic instability of CePd <sub>2</sub> Si <sub>2</sub> . Journal of Physics Condensed Matter, 2001, 13, 9335-9347.	1.8	31
113	Pressure-induced residual resistivity anomaly in CeCu <sub>5</sub> Au. Journal of Physics Condensed Matter, 2001, 13, L329-L335.	1.8	17
114	Pressure dependence of the spin dynamics around a quantum critical point: an inelastic neutron scattering study of Ce <sub>0.87</sub> La <sub>0.13</sub> Ru <sub>2</sub> Si <sub>2</sub> . Journal of Physics Condensed Matter, 2001, 13, 8303-8315.	1.8	13
115	Magnetic form factor in CeRu <sub>2</sub> Si <sub>2</sub> on crossing its metamagnetic transition. Journal of Physics Condensed Matter, 2001, 13, 10901-10909.	1.8	9
116	Spin waves and magnetic ordering in the quasi-one-dimensional S=1/2 antiferromagnet BaCu <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> . Physical Review B, 2001, 64, .	3.2	50
117	Spin dynamics in the quasi-one-dimensional S=1/2 antiferromagnet BaCu <sub>2</sub> Si <sub>2</sub> O <sub>7</sub> . Physical Review B, 2001, 65, .	3.2	34
118	Two-dimensional spin fluctuations in Sr <sub>2</sub> RuO <sub>4</sub> . Solid State Communications, 2000, 116, 489-493.	1.9	29
119	Transport evidence for heavy fermion superconductivity in CePd <sub>2</sub> Si <sub>2</sub> . Physica B: Condensed Matter, 2000, 281-282, 1-2.	2.7	1
120	Neutron scattering of fragile antiferromagnetic phases in heavy fermion compounds. Physica B: Condensed Matter, 2000, 280, 354-355.	2.7	1
121	Superconductivity and non-Fermi liquid behavior close to the quantum critical point. Physica C: Superconductivity and Its Applications, 2000, 341-348, 733-734.	1.2	0
122	High Pressure Resistivity of the Heavy Fermion Compound CeCu <sub>6</sub> . Journal of Low Temperature Physics, 2000, 120, 107-119.	1.4	17
123	Role of single-ion excitations in the mixed-spin quasi-one-dimensional quantum antiferromagnet Nd <sub>2</sub> BaNiO <sub>5</sub> . Physical Review B, 2000, 61, 11601-11612.	3.2	17
124	Energy Separation of Single-Particle and Continuum States in an S=1/2 Weakly Coupled Chains Antiferromagnet. Physical Review Letters, 2000, 85, 4799-4802.	7.8	53
125	Electronic properties of CePd <sub>2</sub> Si <sub>2</sub> under pressure. Physical Review B, 2000, 61, 8679-8682.	3.2	53
126	From heavy fermion antiferromagnetism to localized ferromagnetism: competition of two ground states in CeRu <sub>2</sub> Ge <sub>2</sub> on cooling. Journal of Physics Condensed Matter, 1999, 11, 5547-5560.	1.8	30



#	ARTICLE	IF	CITATIONS
127	Polarized-Neutron Observation of Longitudinal Haldane-Gap Excitations in Nd <sub>2</sub> BaNiO <sub>5</sub> . Physical Review Letters, 1999, 82, 2382-2385.	7.8	43
128	Unconventional Ferromagnetic and Spin-Glass States of the Reentrant Spin Glass Fe <sub>0.7</sub> Al <sub>0.3</sub> . Physical Review Letters, 1999, 82, 4711-4714.	7.8	44
129	Transport evidence for pressure-induced superconductivity in CePd <sub>2</sub> Si <sub>2</sub> . Solid State Communications, 1999, 112, 617-620.	1.9	32
130	Magnetic instabilities in CeRu <sub>2</sub> Si <sub>2</sub> compounds. Physica B: Condensed Matter, 1999, 259-261, 48-53.	2.7	21
131	Low energy excitations in CeNiSn. Journal of Magnetism and Magnetic Materials, 1998, 190, 245-250.	2.3	3
132	Experimental Measurement of the Staggered Magnetization Curve for a Haldane Spin Chain. Physical Review Letters, 1998, 80, 3630-3633.	7.8	55
133	Magnetic ordering, spin waves, and Haldane-gap excitations in (Nd <sub>x</sub> Y <sub>1-x</sub> ) <sub>2</sub> BaNiO <sub>5</sub> linear-chain mixed-spin antiferromagnets. Physical Review B, 1998, 58, 14424-14435.	3.2	41
134	Phonon Softening and Time Dependence of Elastic Peak Appearing Prior to the Martensitic Transformation in Au-47.5 at% Cd. Japanese Journal of Applied Physics, 1998, 37, L64-L66.	1.5	15
135	Switching of the magnetic interactions from antiferromagnetic to ferromagnetic in the heavy-fermion compound under high magnetic field. Journal of Physics Condensed Matter, 1998, 10, 2363-2373.	1.8	20
136	An inelastic neutron scattering study of the Kondo semiconductor CeNiSn in high magnetic field. Journal of Physics Condensed Matter, 1997, 9, 1599-1608.	1.8	7
137	Magnetic Correlations in Ce <sub>0.925</sub> La <sub>0.075</sub> Ru <sub>2</sub> Si <sub>2</sub> . Journal of Low Temperature Physics, 1997, 109, 205-224.	1.4	31
138	Magnetic excitations in CeNiSn under high magnetic field. Physica B: Condensed Matter, 1997, 230-232, 667-669.	2.7	3
139	Spin dynamics of the re-entrant spin glass Fe <sub>0.7</sub> Al <sub>0.3</sub> . Physica B: Condensed Matter, 1997, 241-243, 597-599.	2.7	4
140	Magnetic correlations in Ce <sub>0.925</sub> La <sub>0.075</sub> Ru <sub>2</sub> Si <sub>2</sub> . Journal of Low Temperature Physics, 1997, 109, 205-224.	1.4	8
141	Application of the SCR Spin Fluctuation Theory for the Magnetic Instability in Heavy Fermion System Ce <sub>1-x</sub> La <sub>x</sub> Ru <sub>2</sub> Si <sub>2</sub> . Journal of the Physical Society of Japan, 1996, 65, 3294-3300.	1.6	90
142	Charge and spin gaps in Kondo-insulator CeNiSn. European Physical Journal D, 1996, 46, 1999-2000.	0.4	1
143	Magnetic structure and physical properties of the heavy fermion U <sub>1</sub> Ru <sub>2</sub> Si <sub>2</sub> . Journal of Magnetism and Magnetic Materials, 1996, 153, 55-62.	2.3	14
144	Influence of sample quality on the magnetic properties of URu <sub>2</sub> Si <sub>2</sub> . Journal of Magnetism and Magnetic Materials, 1996, 154, 339-350.	2.3	46

#	ARTICLE	IF	CITATIONS
145	Excitations in heavy fermion systems. Physica B: Condensed Matter, 1996, 223-224, 135-140.	2.7	19
146	Low temperature structural and physical behaviour of UIr <sub>2</sub> Si <sub>2</sub> single crystal. Physica B: Condensed Matter, 1995, 206-207, 509-511.	2.7	6