

Valentin Taufour

List of Publications by Year in descending order

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98
papers

2,648
citations

201674

27
h-index

197818

49
g-index

105
all docs

105
docs citations

105
times ranked

2539
citing authors

#	ARTICLE	IF	CITATIONS
1	Discovery of orbital-selective Cooper pairing in FeSe. Science, 2017, 357, 75-80.	12.6	283
2	Extremely Large and Anisotropic Upper Critical Field and the Ferromagnetic Instability in UCoGe. Journal of the Physical Society of Japan, 2009, 78, 113709.	1.6	136
3	Tricritical Point and Wing Structure in the Itinerant Ferromagnet URu_2Si_2 . Physical Review Letters, 2010, 105, 217201.	7.8	135
4	Similarity of the Fermi Surface in the Hidden Order State and in the Antiferromagnetic State of URu_2Si_2 . Physical Review Letters, 2010, 105, 216409.	7.8	118
5	Anisotropic thermodynamic and transport properties of single-crystalline $CaKFe_4AsF$. Physical Review B, 2016, 94, .	3.2	107
6	Signature of hidden order in heavy fermion superconductor URu_2Si_2 . Physical Review B, 2008, 78, .	3.2	107
7	Strong cooperative coupling of pressure-induced magnetic order and nematicity in FeSe. Nature Communications, 2016, 7, 12728.	12.8	106
8	Origin of the Resistivity Anisotropy in the Nematic Phase of FeSe. Physical Review Letters, 2016, 117, 127001.	7.8	93
9	Ferromagnetic Quantum Critical Endpoint in UCoAl. Journal of the Physical Society of Japan, 2011, 80, 094711.	1.6	89
10	Variation of transition temperatures and residual resistivity ratio in vapor-grown FeSe. Physical Review B, 2016, 94, .	3.2	81
11	Evolution toward Quantum Critical End Point in URu_2Si_2 . Journal of the Physical Society of Japan, 2011, 80, 083703.	1.6	73
12	Giant magnetic anisotropy and tunnelling of the magnetization in $Li_2(Li_{1-x}F_x)N$. Nature Communications, 2014, 5, 3333.	12.8	60
13	Precise Study of the Resonance at $Q=(1,0,0)$ in URu_2Si_2 . Journal of the Physical Society of Japan, 2010, 79, 064719.	1.6	59
14	Ferromagnetic Quantum Critical Point Avoided by the Appearance of Another Magnetic Phase in $LaCrGe_3$ under Pressure. Physical Review Letters, 2016, 117, 037207.	7.8	47
15	Details of Sample Dependence and Transport Properties of URu_2Si_2 . Journal of the Physical Society of Japan, 2011, 80, 114710.	1.6	46
16	Nonmonotonic pressure evolution of the upper critical field in superconducting FeSe. Physical Review B, 2016, 93, .	3.2	46
17	Tricritical wings and modulated magnetic phases in $LaCrGe_3$ under pressure. Nature Communications, 2017, 8, 546.	12.8	46
18	Upper critical field of K_2FeAs_2 under pressure: A test for the change in the superconducting gap structure. Physical Review B, 2014, 89, .	3.2	43

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19	Effect of nickel substitution on magnetism in the layered van der Waals ferromagnet $\text{Fe}_{1-x}\text{Ni}_x\text{Te}$. Physical Review B, 2018, 98, .	3.2	32
20	Superconductivity Reinforced by Magnetic Field and the Magnetic Instability in Uranium Ferromagnets. Journal of the Physical Society of Japan, 2011, 80, SA008.	1.6	40
21	Properties of ferromagnetic superconductors. Comptes Rendus Physique, 2011, 12, 573-583.	0.9	39
22	Field Reentrance of the Hidden Order State of URu_2Si_2 under Pressure. Journal of the Physical Society of Japan, 2009, 78, 053701.	1.6	36
23	Pressure-induced half-collapsed-tetragonal phase in $\text{CaKFe}_4\text{As}_6$. Physical Review B, 2017, 96, .	3.2	34
24	Dome of magnetic order inside the nematic phase of sulfur-substituted FeSe under pressure. Physical Review B, 2017, 96, .	3.2	34
25	First Observation of Quantum Oscillations in the Ferromagnetic Superconductor UCoGe. Journal of the Physical Society of Japan, 2011, 80, 013705.	1.6	32
26	Suppression of ferromagnetism in the $\text{LaV}_2\text{Cr}_2\text{Ge}_2$. Physical Review B, 2017, 96, .	3.2	30
27	Two magnetic Ginzburg-Landau parameters in the ferromagnetic superconductor URu_2Si_2 . Physical Review B, 2011, 84, .	3.2	27
28	Magnetic properties of URu_2Si_2 under uniaxial stress by neutron scattering. Physical Review B, 2011, 84, .	3.2	27
29	A study of the physical properties of single crystalline $\text{Fe}_5\text{B}_2\text{P}$. Journal of Magnetism and Magnetic Materials, 2016, 401, 525-531.	2.3	27
30	Origin of the spin reorientation transitions in $(\text{Fe}_{1-x}\text{Co}_x)_2\text{B}$ alloys. Applied Physics Letters, 2015, 106, .	3.3	25
31	Field re-entrant hidden-order phase under pressure in URu_2Si_2 . Journal of Physics Condensed Matter, 2010, 22, 164205.	1.8	24
32	Discovery of ferromagnetism with large magnetic anisotropy in ZrMnP and HfMnP . Applied Physics Letters, 2016, 109, .	3.3	24
33	Structural and Ferromagnetic Properties of an Orthorhombic Phase of MnBi Stabilized with Rh Additions. Physical Review Applied, 2015, 4, .	3.8	21
34	Transformation of a Pauli Paramagnet into a Strong Permanent Magnet. Physical Review Applied, 2018, 9, .	3.8	21
35	Quantum tricritical point in the temperature-pressure-magnetic field phase diagram of CeTiGe_3 . Physical Review B, 2018, 97, .	3.2	20
36	Thermoelectricity of the ferromagnetic superconductor UCoGe. Physical Review B, 2012, 85, .	3.2	20

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37	Momentum dependence of the superconducting gap and in-gap states in MgB ₂ multiband superconductor. Physical Review B, 2015, 91, 114104. Thermoelectric evidence for high-field anomalies in the hidden order phase of URu ₂ Si. Physical Review B, 2015, 91, 114104.	3.2	20
38	Thermoelectric evidence for high-field anomalies in the hidden order phase of URu ₂ Si. Physical Review B, 2015, 91, 114104.	3.2	19
39	Thermodynamic and transport properties of single crystalline RCo ₂ Ge ₂ (R=Y, La, Nd, Sm, Tm). Journal of Magnetism and Magnetic Materials, 2014, 358-359, 212-227.	2.3	19
40	Thermoelectric power quantum oscillations in the ferromagnet UGe ₂ . Physical Review B, 2016, 93, 080407.	3.2	19
41	Observation of the Fermi sheet of the Fermi surface of YbRh ₂ Si ₂ . Physica Status Solidi (B): Basic Research, 2010, 247, 549-552.	1.5	16
42	Strong interaction between electrons and collective excitations in the multiband superconductor MgB ₂ . Physical Review B, 2015, 91, 114104.	3.2	16
43	Pressure-induced collapsed-tetragonal phase in SrCo ₂ As ₂ . Physical Review B, 2015, 92, 020407.	3.2	16
44	Superconductivity versus structural phase transition in the closely related Bi ₂ S ₃ and Bi ₂ Te ₃ . Physical Review B, 2015, 91, 114104.	3.2	16
45	Dirac lines and loop at the Fermi level in the time-reversal symmetry breaking superconductor LaNiGa ₂ . Communications Physics, 2022, 5, 0101.	5.3	15
46	Electronic structure and topology across Tc in the magnetic Weyl semimetal Co ₃ T ₂ Te ₅ . Physical Review B, 2021, 104, 040407.	3.2	14
47	Trends in Heavy Fermion Matter. Journal of Physics: Conference Series, 2011, 273, 012001.	0.4	13
48	Eu ₁₁ Zn ₄ Sn ₂ As ₁₂ : A Ferromagnetic Zintl Semiconductor with a Layered Structure Featuring Extended Zn ₄ As ₆ Sheets and Ethane-like Sn ₂ As ₆ Units. Chemistry of Materials, 2018, 30, 7067-7076.	6.7	12
49	Remarkably Robust and Correlated Coherence and Antiferromagnetism in Ce _{1-x} Th _x Te ₅ . Physical Review Letters, 2015, 114, 236601.	7.8	11
50	Ambipolar Topological Insulator and High Carrier Mobility in Solution Grown Ultrathin Nanoplates of Sb-Doped Bi ₂ Se ₃ . ACS Applied Electronic Materials, 2019, 1, 1917-1923.	4.3	11
51	Interfacial-Redox-Induced Tuning of Superconductivity in YBa ₂ Cu ₃ O _{7-δ} . ACS Applied Materials & Interfaces, 2020, 12, 4741-4748.	8.0	11
52	Pressure dependence of coherence-incoherence crossover behavior in KFe ₂ As ₂ observed by resistivity and As ⁷⁵ -NMR/NQR. Physical Review B, 2018, 97, 020407.	3.2	10
53	Anisotropic transport and magnetic properties and magnetic-field tuned states of CeZn ₁₁ single crystals. Physical Review B, 2013, 88, 020407.	3.2	9
54	Ferromagnetic quantum criticality: New aspects from the phase diagram of LaCrGe ₃ . Physica B: Condensed Matter, 2018, 536, 483-487.	2.7	9

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55	Self-Consistent Two-Gap Description of MgB ₂ Superconductor. Symmetry, 2019, 11, 1012.	2.2	9
56	Magnetic field evolution of critical end point in UGe ₂ . Journal of Physics: Conference Series, 2011, 273, 012017.	0.4	8
57	Constraints on the merging of the transition lines at the tricritical point in a wing-structure phase diagram. Physical Review B, 2016, 94, .	3.2	8
58	Magnetic properties of the itinerant ferromagnet LaCrGe_3 under pressure studied by ^{139}La NMR. Physical Review B, 2021, 103, .	3.2	8
59	Suppression of ferromagnetism in the $\text{La}(\text{V}_{1-x}\text{Cr}_x\text{Sb}_3)$ system. Philosophical Magazine, 2014, 94, 1277-1300.	1.6	7
60	Superconducting properties of RhS_4 single crystals. Physical Review B, 2016, 93, .	3.2	7
61	Isotope effect on electron-phonon interaction in the multiband superconductor MgB_2 . Physical Review B, 2016, 93, .	3.2	7
62	Polar Intermetallics $\text{Pr}_5\text{Co}_2\text{Ge}_3$ and $\text{Pr}_7\text{Co}_2\text{Ge}_4$ with Planar Hydrocarbon-Like Metal Clusters. Chemistry - A European Journal, 2017, 23, 10516-10521.	3.3	7
63	Oblique-incidence Sagnac interferometric scanning microscope for studying magneto-optic effects of materials at low temperatures. Review of Scientific Instruments, 2021, 92, 043706.	1.3	7
64	Inhomogeneous Knight shift in vortex cores of superconducting FeSe. Physical Review B, 2021, 104, .	3.2	7
65	Oxygen trapped by rare earth tetrahedral clusters in Nd ₄ FeOS ₆ : Crystal structure, electronic structure, and magnetic properties. Journal of Solid State Chemistry, 2015, 229, 41-48.	2.9	6
66	Tuning the Kondo effect in $\text{Yb}_2\text{Co}_2\text{O}_7$. Physical Review B, 2017, 95, .	3.2	6
67	Tuning the Kondo effect in LaCrGe_3 and LaCrSb_3 . Physical Review B, 2018, 97, .	3.2	6
68	Study of the ferromagnetic quantum phase transition in $\text{Ce}_{3-x}\text{Mg}_x\text{Co}_9$. Philosophical Magazine, 2020, 100, 1607-1619.	1.6	6
69	Deconvoluting the Magnetic Structure of the Commensurately Modulated Quinary Zintl Phase $\text{Eu}_{11}\text{Sr}_4\text{Zn}_4\text{Sn}_2\text{As}_{12}$. Inorganic Chemistry, 2021, 60, 5711-5723.	4.0	6
70	Nonsymmorphic band sticking in a topological superconductor. Physical Review B, 2022, 105, .	3.2	6
71	Suppression of hidden order in URu_2Si_2 under pressure and restoration in magnetic field. Journal of Physics: Conference Series, 2010, 251, 012001.	0.4	5
72	Imaging the magnetic nanodomains in $\text{Nd}_2\text{Si}_2\text{O}_7$. Physical Review B, 2016, 93, .	3.2	5

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73	Thermoelectric Properties of CoAsSb: An Experimental and Theoretical Study. Chemistry of Materials, 2018, 30, 4207-4215.	6.7	5
74	Reinvestigation of the intrinsic magnetic properties of YFe_2O_7 . Physical Review B, 2020, 102, 014404.	2.3	5
75	Magnetic Materials, 2020, 513, 167214. Field-Induced Phenomena in Ferromagnetic Superconductors UCoGe and URhGe. Journal of the Physical Society of Japan, 2012, 81, SB002.	1.6	4
76	Electrical resistivity study of CeZn_{11} : Magnetic field and pressure phase diagram up to 5 GPa. Physical Review B, 2013, 88, .	3.2	4
77	Topological surface states above the Fermi level in Hf ₂ Te ₂ P. Physical Review B, 2019, 100, .	3.2	4
78	Magnetic fluctuations in the itinerant ferromagnet LaCrGe_3 studied by NMR. Physical Review B, 2019, 99, .	3.2	4
79	Temperature Dependence of Energy Gap in the Superconducting State in URu ₂ Si ₂ . Journal of the Physical Society of Japan, 2010, 79, 094706.	1.6	3
80	On the Structure and Stability of BaAl ₄ Type Ordered Derivatives in the SrAuSn System for the 600 Å°C Section. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2015, 641, 375-382.	1.2	3
81	Anisotropic physical properties and pressure dependent magnetic ordering of CrAuTe ₄ . Physical Review B, 2016, 94, .	3.2	3
82	Enhanced magnetic properties of aluminum oxide nanopowder reinforced with carbon nanotubes. Journal of Nanoparticle Research, 2020, 22, 1.	1.9	3
83	Separation of Kondo lattice coherence from crystal electric field in CeIn_3 with Nd substitutions. Physical Review B, 2022, 105, .	3.2	3
84	Polarized Neutron on URu ₂ Si ₂ . Physics Procedia, 2013, 42, 4-9.	1.2	2
85	Stabilization of a Metastable Fibrous Bi ₂ 1.2(1)(Mn _{1-x} Cox) ₂₀ Phase with Pseudo-Pentagonal Symmetry Prepared Using a Bi Self-Flux. Chemistry of Materials, 2016, 28, 8484-8488.	6.7	2
86	Pressure-induced suppression of ferromagnetism in the itinerant ferromagnet LaCrSb ₃ . Physical Review B, 2020, 101, .	3.2	2
87	Robust antiferromagnetism in YCo_3 . Physical Review B, 2021, 104, .	3.2	2
88	Magnetic properties of Fe_2O_3 nanoparticles in a porous SiO ₂ shell for drug delivery. Journal of Physics Condensed Matter, 2021, 33, 065301.	1.8	2
89	Effects of magnetic and non-magnetic doping on the vortex lattice in MgB ₂ . Journal of Applied Crystallography, 2022, 55, 693-701.	4.5	2
90	Statistics on magnetic properties of Co compounds: A database-driven method for discovering Co-based ferromagnets. Physical Review Materials, 2022, 6, .	2.4	2

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91	Mass enhancement and reentrant ground state under magnetic field in heavy fermion superconductors. Journal of Physics: Conference Series, 2010, 200, 012122.	0.4	1
92	Mg assisted flux growth and characterization of single crystalline Sm ₂ Co ₁₇ . AIP Advances, 2019, 9, 035138.	1.3	1
93	Stabilization of CeGe ₃ with Ti and O featuring tetravalent Ce ions: (Ce _{0.85} Ti _{0.15})Ge ₃ O _{0.5} . Journal of Alloys and Compounds, 2021, 863, 158354.	5.5	1
94	Inelastic contribution of the resistivity in the hidden order in URu ₂ Si ₂ . Journal of Physics: Conference Series, 2011, 273, 012031.	0.4	0
95	Superconducting phase in UGe ₂ by AC calorimetry. Journal of Physics: Conference Series, 2012, 400, 022124.	0.4	0
96	Growth and characterization of BaZnGa. Philosophical Magazine, 2017, 97, 3317-3324.	1.6	0
97	Measured and simulated thermoelectric properties of FeAs _{2-x} Se _x (<i>x</i> = 0, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1). Tj ETQq _{1,5,4} 0.784314 rgBT	0.784314	0
98	High-Pressure Synthesis Approaches to Quantum Materials. , 2021, , 221-237.		0