

James J Hamlin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6551671/publications.pdf>

Version: 2024-02-01

63
papers

1,861
citations

293460

24
h-index

299063

42
g-index

64
all docs

64
docs citations

64
times ranked

2819
citing authors

#	ARTICLE	IF	CITATIONS
1	The 2021 room-temperature superconductivity roadmap. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 183002.	0.7	79
2	Machine learning of superconducting critical temperature from Eliashberg theory. <i>Npj Computational Materials</i> , 2022, 8, .	3.5	27
3	A15 Nb3Si: a T_c superconductor synthesized at a pressure of one megabar and metastable at ambient conditions. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 285705.	0.7	0
4	High-pressure study of the low- Z rich superconductor Be22Re. <i>Physical Review B</i> , 2021, 104, .	1.1	2
5	Remarkable low-energy properties of the pseudogapped semimetal Be5Pt. <i>Physical Review B</i> , 2020, 102, .	1.1	1
6	Pressure-induced suppression of ferromagnetism in CePd2P2. <i>Physical Review B</i> , 2020, 102, .	1.1	2
7	Possible pressure-induced topological quantum phase transition in the nodal line semimetal ZrSiS. <i>Physical Review B</i> , 2019, 99, .	1.1	19
8	Functional form of the superconducting critical temperature from machine learning. <i>Physical Review B</i> , 2019, 100, .	1.1	35
9	Extreme diamond-based quantum sensors. <i>Science</i> , 2019, 366, 1312-1313.	6.0	23
10	Unusual effects of Be doping in the iron-based superconductor FeSe. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 445701.	0.7	3
11	Superconducting and magnetic phase diagram of $RbEuFe_4$ and $CsEuFe_4$ at high pressure. <i>Physical Review B</i> , 2018, 98, .	1.1	31
12	High Pressure Raman, Optical Absorption, and Resistivity Study of $SrCrO_4$. <i>Inorganic Chemistry</i> , 2018, 57, 7550-7557.	1.9	17
13	Pressure-tuning of the photomagnetic response of heterostructured CoFe@CrCr-PBA core@shell nanoparticles. <i>Polyhedron</i> , 2017, 123, 323-327.	1.0	7
14	Evolution of the Fermi surface of BiTeCl with pressure. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 295702.	0.7	4
15	Pressure-induced superconductivity in the giant Rashba system BiTeI. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 09LT02.	0.7	11
16	Superconductivity of barium-VI synthesized via compression at low temperatures. <i>Physical Review B</i> , 2017, 96, .	1.1	4
17	Frustrated magnetism in the spin-chain metal $Yb_2Fe_{12}P_7$. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 046004.	0.7	1
18	Pressure dependence of the charge-density-wave and superconducting states in $GdTe_3$ and $DyTe_3$. <i>Physical Review B</i> , 2015, 91, .	1.1	63

#	ARTICLE	IF	CITATIONS
19	Pressure-induced superconductivity in LaFeAsO: The role of anionic height and magnetic ordering. Applied Physics Letters, 2014, 105, .	1.5	9
20	Persistent non-metallic behavior in Sr2IrO4 and Sr3Ir2O7 at high pressures. Journal of Physics Condensed Matter, 2014, 26, 255603.	0.7	40
21	Probing the superconductivity of $\text{PrPt}_{1-x}\text{Ce}_x$ substitution. Physical Review B, 2014, 89, .	1.1	24
22	Electrical resistivity of single crystals of LaFeAsO under applied pressure. Physical Review B, 2014, 90, .	1.1	8
23	Crossover between Fermi liquid and non-Fermi liquid behavior in the non-centrosymmetric compound YbNi_2P_7 . Journal of Physics Condensed Matter, 2014, 26, 425601.	0.7	4
24	Pressure tuning the Fermi level through the Dirac point of giant Rashba semiconductor BiTeI. Journal of Physics Condensed Matter, 2014, 26, 342202.	0.7	17
25	Pressure-Induced Unconventional Superconducting Phase in the Topological Insulator Bi_2Se_3 . Physical Review Letters, 2013, 111, 087001.	2.9	195
26	Ferromagnetic quantum critical point in $\text{UCo}_1\text{Fe}_x\text{Ge}$. Physical Review B, 2013, 87, .	1.1	16
27	Magnetotransport properties of single-crystalline LaFeAsO. Physical Review B, 2013, 88, .	1.1	7
28	Superconducting and magnetic anisotropy of L_nFePO ($n=1, 2$). Physical Review B, 2013, 87, .	1.1	2
29	Insensitivity of the pressure dependences of characteristic energy scales in $\text{Ce}_{1-x}\text{Pr}_x\text{AsO}$. Physical Review B, 2013, 87, .	1.1	2

#	ARTICLE	IF	CITATIONS
37	Low-temperature electrical resistivity of praseodymium at pressures up to 120 GPa. Physical Review B, 2011, 84, .	1.1	6
38	Twofold enhancement of the hidden-order/large-moment antiferromagnetic phase boundary in the URu2 $\hat{\wedge}$ xFeSi2system. Physical Review B, 2011, 84, .	1.1	37
39	Magnetic, thermal, and transport properties of the actinide based noncentrosymmetric compounds Th2Fe12P7and U2Fe12P7. Journal of Physics Condensed Matter, 2011, 23, 094222.	0.7	4
40	The non-centrosymmetric heavy fermion ferromagnet Sm2Fe12P7. Journal of Physics Condensed Matter, 2011, 23, 094221.	0.7	6
41	Pressure-induced superconductivity in europium metal. Journal of Physics: Conference Series, 2010, 215, 012034.	0.3	10
42	Non-Fermi Liquid Regimes and Superconductivity in the Low Temperature Phase Diagrams of Strongly Correlated d- and f-Electron Materials. Journal of Low Temperature Physics, 2010, 161, 4-54.	0.6	54
43	The pressure-temperature phase diagram of URu2Si2 under hydrostatic conditions. Materials Research Society Symposia Proceedings, 2010, 1264, 1.	0.1	0
44	Evolution of the Magnetic and Superconducting States in UCoGe With Fe and Ni Substitution. Materials Research Society Symposia Proceedings, 2010, 1264, 1.	0.1	4
45	Unconventional T $\hat{\wedge}$ H Phase Diagram in the Noncentrosymmetric Compound Yb2Fe12P7. Physical Review Letters, 2010, 105, 106403. Publisher's Note: Unconventional	2.9	14
46	Unconventional T $\hat{\wedge}$ H Phase Diagram in the Noncentrosymmetric Compound Yb $\hat{\wedge}$ Fe $\hat{\wedge}$ P $\hat{\wedge}$ 7. Physical Review Letters, 2010, 105, .	2.9	0
47	Superconductivity for CaC6 to 32 GPa hydrostatic pressure. Physical Review B, 2010, 82, .	1.1	12
48	Pressure-Induced Superconducting Phase in the Charge-Density-Wave Compound Terbium Tritelluride. Physical Review Letters, 2009, 102, 177002.	2.9	63
49	High-pressure, transport, and thermodynamic properties of CeTe $\hat{\wedge}$ 3 $\hat{\wedge}$ 15. Physical Review B, 2009, 79, .	1.1	15
50	Pressure-Induced Superconducting State of Europium Metal at Low Temperatures. Physical Review Letters, 2009, 102, 197002.	2.9	62
51	Electronic correlations in the iron pnictides. Nature Physics, 2009, 5, 647-650.	6.5	317
52	Superconductivity in Ln $\hat{\wedge}$ FePO (Ln = La, Pr and Nd) single crystals. New Journal of Physics, 2009, 11, 025018.	1.2	40
53	Recent studies in superconductivity at extreme pressures. Journal of Physics: Conference Series, 2008, 121, 052006.	0.3	12
54	Superconductivity under high pressure in the binary compound CaLi $\hat{\wedge}$ 2 $\hat{\wedge}$ 13. Physical Review B, 2008, 78, .	1.1	13

#	ARTICLE	IF	CITATIONS
55	Superconductivity in single crystals of LaFePO. Journal of Physics Condensed Matter, 2008, 20, 365220.	0.7	49
56	Pressure-Induced Superconductivity in CaLi_2 . Physical Review Letters, 2008, 100, 197003.	2.9	26
57	Pressure-induced superconductivity in the trivalent actinide Pu_2O_7 . Physical Review Letters, 2007, 99, 167001.	1.1	69
58	Pressure-induced superconductivity in Sr_2RuO_4 under high pressure to 3 GPa. Physical Review Letters, 2007, 99, 167001.	1.1	35
59	Pressure-induced superconductivity in Sc_2O_3 to 74 GPa. Physical Review B, 2007, 76, 014407.	1.1	25
60	Superconductivity at 17 K in yttrium metal under nearly hydrostatic pressures up to 89 GPa. Physical Review B, 2006, 73, 014407.	1.1	63
61	Enhanced superconducting properties of bicrystalline $\text{YBa}_2\text{Cu}_3\text{O}_x$ and alkali metals under pressure. Journal of Physics Condensed Matter, 2005, 17, S921-S928.	0.7	8
62	Hydrostatic pressure dependence of the Curie temperature of $[\text{MnR}_4\text{TPP}][\text{TCNE}]$ for $\text{R}=\text{OC}_{10}\text{H}_{21}$, $\text{OC}_{14}\text{H}_{29}$, and F (TPP, tetraphenylporphyrin; TCNE, tetracyanoethylene). Polyhedron, 2003, 22, 3339-3344.	1.0	5
63	Dependence of T_c on hydrostatic pressure in superconducting MgB_2 . Physical Review B, 2001, 64, 014407.	1.1	78