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Superconductivity at 38 K in the iron arsenide $(\text{Ba}_{1-x}\text{K}_x)\text{Fe}_2\text{As}_2$

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#	Paper	IF	Citations
2317	The superconductivity at 18 K in LiFeAs system. 2008 , 148, 538-540		818
2316	High-temperature superconductivity in iron-based layered iron compounds. 2008 , 51, 1201-1227		190
2315	Upper critical field, anisotropy, and superconducting properties of Ba _{1-x} K _x Fe ₂ As ₂ single crystals. 2008 , 78,		128
2314	Density functional study of FeS, FeSe, and FeTe: Electronic structure, magnetism, phonons, and superconductivity. 2008 , 78,		644
2313	Unconventional superconductivity in Ba(0.6)K(0.4)Fe ₂ As ₂ from inelastic neutron scattering. 2008 , 456, 930-2		499
2312	Electronic structure of new AFeAs prototype of iron arsenide superconductors. 2008 , 88, 679-682		16
2311	Band structure of SrFeAsF and CaFeAsF—the base phases of a new group of oxygen-free FeAs superconductors. 2008 , 88, 683-687		14
2310	Structural and magnetic phase diagram of CeFeAsO(1-x)F(x) and its relation to high-temperature superconductivity. 2008 , 7, 953-9		657
2309	Correlated pressure effects on the structure and superconductivity of LaFeAsO _{0.9} F _{0.1} . 2008 , 78,		54
2308	Neutron-diffraction measurements of magnetic order and a structural transition in the parent BaFe ₂ As ₂ compound of FeAs-based high-temperature superconductors. <i>Physical Review Letters</i> , 2008 , 101, 257003	7.4	691
2307	Commensurate Itinerant Antiferromagnetism in BaFe ₂ As ₂ : ⁷⁵ As-NMR Studies on a Self-Flux Grown Single Crystal. 2008 , 77, 114709		202
2306	Effects of Co substitution on thermodynamic and transport properties and anisotropic H _{c2} in Ba(Fe _{1-x} Co _x) ₂ As ₂ single crystals. 2008 , 78,		483
2305	Iron-specific phonon density of states in the superconductors LaFeAsO _{1-x} F _x and La _{1-x} C _x FePO. 2008 , 78,		27
2304	The optical phonon spectrum of SmFeAsO. 2008 , 84, 67013		25
2303	Momentum dependence of the superconducting gap in NdFeAsO _{0.9} F _{0.1} single crystals measured by angle resolved photoemission spectroscopy. <i>Physical Review Letters</i> , 2008 , 101, 147003	7.4	230
2302	High-temperature superconductivity in layered iron compounds. 2008 , 178, 1243		53
2301	Superconductivity induced by co-doping in quaternary fluoroarsenide CaFeAsF. 2008 , 130, 14428-9		181

2300	Crystallographic phase transition and high-T _c superconductivity in LaFeAsO:F. 2008 , 21, 125028		212
2299	Magnetism, superconductivity, and pairing symmetry in iron-based superconductors. 2008 , 78,		599
2298	Structure and superconductivity of LiFeAs. 2008 , 5918-20		256
2297	Phonon dynamics in Sr _{0.6} K _{0.4} Fe ₂ As ₂ and Ca _{0.6} Na _{0.4} Fe ₂ As ₂ from neutron scattering and lattice-dynamical calculations. 2008 , 78,		22
2296	K-doping dependence of the Fermi surface of the iron-arsenic Ba _{1-x} K _x Fe ₂ As ₂ superconductor using angle-resolved photoemission spectroscopy. <i>Physical Review Letters</i> , 2008 , 101, 177005	7-4	203
2295	Spin and lattice structures of single-crystalline SrFe ₂ As ₂ . 2008 , 78,		178
2294	Pressure effects on the electron-doped highT _c superconductor BaFe ₂ As ₂ Cox. 2008 , 20, 472201		44
2293	Thermodynamic properties of Ba _{1-x} K _x Fe ₂ As ₂ and Ca _{1-x} Na _x Fe ₂ As ₂ . 2008 , 10, 123031		36
2292	Growth and characterization of A _{1-x} K _x Fe ₂ As ₂ (A = Ba, Sr) single crystals withx= 0-0.4. 2008 , 21, 125014		95
2291	Evidence of nodeless superconductivity in FeSe _{0.85} from a muon-spin-rotation study of the in-plane magnetic penetration depth. 2008 , 78,		92
2290	Lattice and magnetic structures of PrFeAsO, PrFeAsO _{0.85} F _{0.15} , and PrFeAsO _{0.85} . 2008 , 78,		125
2289	Evidence for Unconventional Superconductivity in Arsenic-Free Iron-Based Superconductor FeSe: A ⁷⁷ Se-NMR Study. 2008 , 77, 113703		82
2288	Determination of anisotropic H _{c2} up to 60 T in Ba _{0.55} K _{0.45} Fe ₂ As ₂ single crystals. 2008 , 78,		148
2287	Low energy spin waves and magnetic interactions in SrFe ₂ As ₂ . <i>Physical Review Letters</i> , 2008 , 101, 167203.	7-4	152
2286	High-energy spin excitations in BaFe ₂ As ₂ observed by inelastic neutron scattering. 2008 , 78,		113
2285	High-temperature superconductivity in Eu _{0.5} K _{0.5} Fe ₂ As ₂ . 2008 , 78,		179
2284	Superconductivity in SrNi ₂ As ₂ single crystals. 2008 , 78,		92
2283	Suppression of Magnetic Order by Pressure in BaFe ₂ As ₂ . 2008 , 77, 105004		71

2282	Structural and magnetic phase transitions in the ternary iron arsenides SrFe ₂ As ₂ and EuFe ₂ As ₂ . 2008 , 20, 452201	175
2281	Transport properties and superconductivity in Ba _{1-x} M _x Fe ₂ As ₂ (M=La and K) with double FeAs layers. 2008 , 84, 27010	73
2280	Pressure-induced volume-collapsed tetragonal phase of CaFe ₂ As ₂ as seen via neutron scattering. 2008 , 78,	301
2279	Superconducting Fe-based compounds (A _{1-x} Sr _x)Fe ₂ As ₂ with A=K and Cs with transition temperatures up to 37 K. <i>Physical Review Letters</i> , 2008 , 101, 107007	7.4 635
2278	Electronic structure and doping in BaFe ₂ As ₂ and LiFeAs: Density functional calculations. 2008 , 78,	384
2277	Fishtail effect and the vortex phase diagram of single crystal Ba _{0.6} K _{0.4} Fe ₂ As ₂ . 2008 , 93, 142506	141
2276	Trapped Phonons Improve Photon Detection. 2008 , 1,	151
2275	FeAs systems: a new class of high-temperature superconductors. 2008 , 51, 1261-1286	60
2274	High-Pressure Studies on Superconducting Iron-Based LaFeAsO _{1-x} F _x , LaFePO and SrFe ₂ As ₂ . 2008 , 77, 78-83	38
2273	Magnetic Property of BaFe ₂ As ₂ Probed by ⁷⁵ As NMR. 2008 , 77, 138-139	3
2272	Superconductivity in Epitaxial Thin Films of Co-Doped SrFe ₂ As ₂ with Bilayered FeAs Structures and their Magnetic Anisotropy. 2008 , 1, 101702	101
2271	New high-temperature superconductors based on rare-earth and transition metal oxyarsenides and related phases: synthesis, properties and simulations. 2008 , 51, 1229-1260	122
2270	Electronic Structure, Magnetism and Spin-Fluctuations in Fe-As Based Superconductors. 2008 , 1148, 1	
2269	Synthesis, crystal structure and spin-density-wave anomaly of the iron arsenide-fluoride SrFeAsF. 2008 , 84, 67007	83
2268	Pseudogap and Superconductivity in Iron-Based Layered Superconductor Studied by Fluctuation-Exchange Approximation. 2008 , 77, 123707	118
2267	Chemistry of layered -metal pnictide oxides and their potential as candidates for new superconductors. 2008 , 9, 033003	104
2266	Doping Dependence of Superconductivity and Lattice Constants in Hole Doped La _{1-x} Sr _x FeAsO. 2008 , 77, 15-18	19
2265	Layered Iron Pnictide Superconductors: Discovery and Current Status. 2008 , 77, 1-8	43

2264	Nuclear magnetic relaxation and superfluid density in Fe-pnictide superconductors: an anisotropic \mathbb{B} s-wave scenario. 2008 , 10, 103026		75
2263	SrFeAsF as a parent compound for iron pnictide superconductors. 2008 , 78,		79
2262	Characteristic muon precession and relaxation signals in FeAs and FeAs ₂ : Possible impurity phases in pnictide superconductors. 2008 , 78,		10
2261	Microscopic A75s NMR study of the effect of impurities on the first-order spin-density-wave transition in BaFe ₂ As ₂ . 2008 , 78,		32
2260	Fermi surface and band renormalization of Sr _{1-x} K _x Fe ₂ As ₂ from angle-resolved photoemission spectroscopy. 2008 , 78,		46
2259	Superconducting state in SrFe _{2-x} Co _x As ₂ by internal doping of the iron arsenide layers. <i>Physical Review Letters</i> , 2008 , 101, 207004	7-4	215
2258	Thermal properties of SmFeAsO _{1-x} F _x as a probe of the interplay between electrons and phonons. 2008 , 78,		44
2257	Effect of pressure on the structural phase transition and superconductivity in (Ba _{1-x} K _x)Fe ₂ As ₂ (x=0 and 0.45) and SrFe ₂ As ₂ single crystals. 2008 , 78,		74
2256	Flux-lattice melting in LaFeAsO _{1-x} F _x : First-principles prediction. 2008 , 78,		6
2255	Transport and anisotropy in single-crystalline SrFe ₂ As ₂ and A _{0.6} K _{0.4} Fe ₂ As ₂ (A=Sr, Ba) superconductors. 2008 , 78,		143
2254	Heteroepitaxial growth and optoelectronic properties of layered iron oxyarsenide, LaFeAsO. 2008 , 93, 162504		88
2253	Hall effect and magnetoresistance in single crystals of NdFeAsO _{1-x} F _x (x=0 and 0.18). 2008 , 78,		68
2252	Experimental observables near a nematic quantum critical point in the pnictide and cuprate superconductors. 2008 , 78,		36
2251	Enhanced spin-density wave in LaFeSbO from first principles. 2008 , 78,		10
2250	Origin of the spin density wave instability in AFe ₂ As ₂ (A=Ba,Sr) as revealed by optical spectroscopy. <i>Physical Review Letters</i> , 2008 , 101, 257005	7-4	238
2249	Pressure-induced shift of T _c in K _x Sr _{1-x} Fe ₂ As ₂ (x=0.2,0.4,0.7): Analogy to the high-T _c cuprate superconductors. 2008 , 78,		42
2248	Possible superconductivity in Fe-Sb based materials: Density functional study of LiFeSb. 2008 , 78,		17
2247	Evidence for two energy gaps in superconducting Ba _{0.6} K _{0.4} Fe ₂ As ₂ single crystals and the breakdown of the Uemura plot. <i>Physical Review Letters</i> , 2008 , 101, 257006	7-4	94

2246	Strong coupling between magnetic and structural order parameters in SrFe ₂ As ₂ . 2008 , 78,		119
2245	Experimental consequences of the s-wave cos(kx)cos(ky) superconductivity in the iron pnictides. 2008 , 78,		94
2244	Muon-spin-relaxation studies of magnetic order and superfluid density in antiferromagnetic NdFeAsO, BaFe ₂ As ₂ , and superconducting Ba _{1-x} K _x Fe ₂ As ₂ . 2008 , 78,		84
2243	Inelastic neutron scattering and lattice-dynamical calculations of BaFe ₂ As ₂ . 2008 , 78,		54
2242	Synthesis and characterization of the hole-doped nickel-based superconductor La _{1-x} Sr _x NiAsO. 2008 , 78,		21
2241	Competing orders in FeAs layers. <i>Physical Review Letters</i> , 2008 , 101, 186402	7.4	76
2240	Spin fluctuation dynamics and multiband superconductivity in iron pnictides. 2008 , 78,		69
2239	Lattice and magnetic instabilities in CaFe ₂ As ₂ : A single-crystal neutron diffraction study. 2008 , 78,		283
2238	Superconductivity induced by oxygen deficiency in La _{0.85} Sr _{0.15} FeAsO _{1-x} . 2008 , 78,		24
2237	Density functional study of BaNi ₂ As ₂ : Electronic structure, phonons, and electron-phonon superconductivity. 2008 , 78,		67
2236	Single-crystal growth and physical properties of the layered arsenide BaRh ₂ As ₂ . 2008 , 78,		26
2235	Cobalt-Substitution-Induced Superconductivity in a New Compound with ZrCuSiAs-Type Structure, SrFeAsF. 2008 , 77, 113709		63
2234	Tetragonal to Orthorhombic Phase Transition and F-Doping Effects on the Crystal Structure in the Iron-Based High-T _c Superconductor LaFeAsO. 2008 , 77, 32-35		7
2233	NMR Measurements of Intrinsic Spin Susceptibility in LaFeAsO _{0.9} F _{0.1} . 2008 , 77, 47-53		16
2232	Large Thermoelectric Power Factor in Iron-Pnictide Derivatives. 2008 , 77, 58-60		2
2231	A Resistive Transition between the Normal and Superconducting State of BaNi ₂ P ₂ Single Crystals. 2008 , 77, 136-137		5
2230	Superconductivity in R(O,F)FeAs, AFe ₂ As ₂ , (A,A')Fe ₂ As ₂ , AFeAs and LaNFeAs, where R = Rare Earth, A = Alkaline, and A = Alkaline Earth. 2008 , 77, 72-77		9
2229	Properties of LaFeAsO/MgO(001) Interfaces from ab initio Calculations. 2008 , 77, 113-116		

2228	75As-NMR Studies on LaFeAsO _{1-x} F _x (x=0.14) under a Pressure of 3 GPa. 2009 , 78, 023709	23
2227	Epitaxial Growth of NdFeAsO Thin Films by Molecular Beam Epitaxy. 2009 , 2, 093002	50
2226	Pressure Effect on Electrical Resistivity and Magnetic Susceptibility of Newly Discovered Iron-based High T _c Superconductors. 2009 , 19, 123-128	
2225	Distinct Transport Behaviors of LaFe _{1-y} Co _y AsO _{1-x} F _x (x=0.11) between the Superconducting and Nonsuperconducting Metallic y Regions Divided by y ~0.05. 2009 , 78, 043703	38
2224	Band structure and Fermi surface of (Sr ₂ VO ₃) ₂ Fe ₂ As ₂ and (Sr ₂ ScO ₃) ₂ Fe ₂ As ₂ . 2009 , 80,	21
2223	Structural phase transition in Ba(Fe _{0.973} Cr _{0.027}) ₂ As ₂ single crystals. 2009 , 80,	15
2222	Antiferromagnetic ordering and structural phase transition in Ba ₂ Fe ₂ As ₂ with Sn incorporated from the growth flux. 2009 , 79,	98
2221	Multigap nodeless superconductivity in FeSex: Evidence from quasiparticle heat transport. 2009 , 80,	69
2220	Spin gap and magnetic resonance in superconducting BaFe _{1.9} Ni _{0.1} As ₂ . 2009 , 79,	59
2219	Phonons in doped and undoped BaFe ₂ As ₂ investigated by inelastic x-ray scattering. 2009 , 80,	54
2218	Magnetic order in the CaFe _{1-x} Co _x AsF (x=0.00,0.06,0.12) superconducting compounds. 2009 , 79,	55
2217	Density functional study of the overdoped iron chalcogenide TlFe ₂ Se ₂ with ThCr ₂ Si ₂ structure. 2009 , 79,	35
2216	Superconductivity and phase diagrams of the 4d- and 5d-metal-doped iron arsenides SrFe _{2-x} M _x As ₂ (M=Rh,Ir,Pd). 2009 , 80,	102
2215	Density-functional calculations of the electronic structures and magnetism of the pnictide superconductors BaFeAs ₂ and BaFeSb ₂ . 2009 , 79,	24
2214	Theory of the excitonic spin-density-wave state in iron pnictides. 2009 , 79,	40
2213	Anisotropic itinerant magnetism and spin fluctuations in BaFe ₂ As ₂ : A neutron scattering study. 2009 , 79,	142
2212	Roles of multiband effects and electron-hole asymmetry in the superconductivity and normal-state properties of Ba(Fe _{1-x} Co _x) ₂ As ₂ . 2009 , 80,	170
2211	Superconductivity without Fe or Ni in the phosphides BaIr ₂ P ₂ and BaRh ₂ P ₂ . 2009 , 79,	36

2210	Anisotropy of the iron pnictide superconductor $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ ($x=0.074$, $T_c=23$ K). 2009 , 79,	152
2209	Intrinsic pinning on structural domains in underdoped single crystals of $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. 2009 , 80,	94
2208	Dominant role of local-moment interactions in the magnetic ordering of iron pnictide superconductors: A comparative study of arsenides and antimonides from first principles. 2009 , 80,	11
2207	Band renormalization and Fermi surface reconstruction in iron-based superconductors. 2009 , 79,	42
2206	Properties of KCo_2As_2 and alloys with Fe and Ru: Density functional calculations. 2009 , 79,	17
2205	Two-dimensional magnetism in the pnictide superconductor parent material SrFeAsF probed by muon-spin relaxation. 2009 , 79,	17
2204	Water-induced superconductivity in SrFe_2As_2 . 2009 , 80,	64
2203	Local density of states and superconducting gap in the iron chalcogenide superconductor $\text{Fe}_{1+x}\text{Te}_x$ observed by scanning tunneling spectroscopy. 2009 , 80,	74
2202	Spin excitations in $\text{BaFe}_{1.84}\text{Co}_{0.16}\text{As}_2$ superconductor observed by inelastic neutron scattering. 2009 , 80,	12
2201	First-principles study of the iron pnictide superconductor BaFe_2As_2 . 2009 , 79,	38
2200	Tight-binding models for the iron-based superconductors. 2009 , 80,	140
2199	Electronic structure studies of BaFe_2As_2 by angle-resolved photoemission spectroscopy. 2009 , 79,	72
2198	Superconductivity and the effects of pressure and structure in single-crystalline SrNi_2P_2 . 2009 , 79,	65
2197	Spin excitations in the excitonic spin-density-wave state of the iron pnictides. 2009 , 80,	57
2196	Effects of cobalt doping and three-dimensionality in BaFe_2As_2 . 2009 , 80,	52
2195	Low temperature specific heat of the hole-doped $\text{Ba}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$ single crystals. 2009 , 79,	142
2194	Stoichiometry, spin fluctuations, and superconductivity in LaNiPO . 2009 , 79,	13
2193	Three-dimensional nature of normal and superconducting states in BaNi_2P_2 single crystals with the ThCr_2Si_2 -type structure. 2009 , 79,	29

2192	Synthesis, structural, and transport properties of the hole-doped superconductor $\text{Pr}_{1-x}\text{Sr}_x\text{FeAsO}$. 2009 , 79,		31
2191	Low-temperature thermal conductivity of BaFe_2As_2 : A parent compound of iron arsenide superconductors. 2009 , 79,		9
2190	Unconventional electronic reconstruction in undoped $(\text{Ba,Sr})\text{Fe}_2\text{As}_2$ across the spin density wave transition. 2009 , 80,		124
2189	Surface density of states of $s\text{-}d$ -wave Cooper pairs in a two-band superconductor model. 2009 , 79,		32
2188	Superconductivity in Ir-doped $\text{LaFe}_{1-x}\text{Ir}_x\text{AsO}$. 2009 , 80,		24
2187	Band- and momentum-dependent electron dynamics in superconducting $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ as seen via electronic Raman scattering. 2009 , 80,		76
2186	Electronic structure of the BaFe_2As_2 family of iron-pnictide superconductors. 2009 , 80,		110
2185	Superconducting state coexisting with a phase-separated static magnetic order in $(\text{Ba,K})\text{Fe}_2\text{As}_2$, $(\text{Sr,Na})\text{Fe}_2\text{As}_2$, and CaFe_2As_2 . 2009 , 80,		115
2184	^{59}Co and ^{75}As NMR investigation of lightly doped $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ ($x=0.02,0.04$). 2009 , 79,		36
2183	Electronic and structural properties of low-temperature superconductors and ternary pnictides ANi_2Pn_2 ($\text{A}=\text{Sr,Ba}$ and $\text{Pn}=\text{P,As}$). 2009 , 79,		60
2182	Superconducting properties of the oxygen-deficient iron oxyarsenide $\text{TbFeAsO}_{1-\delta}$ from underdoped to overdoped compositions. 2009 , 80,		11
2181	Muon spin rotation measurement of the magnetic field penetration depth in $\text{Ba}(\text{Fe}_{0.926}\text{Co}_{0.074})_2\text{As}_2$: Evidence for multiple superconducting gaps. 2009 , 80,		62
2180	Two-dimensional resonant magnetic excitation in $\text{BaFe}_{1.84}\text{Co}_{0.16}\text{As}_2$. <i>Physical Review Letters</i> , 2009 , 102, 107005	7-4	228
2179	Unconventional London penetration depth in single-crystal $\text{Ba}(\text{Fe}_{0.93}\text{Co}_{0.07})_2\text{As}_2$ superconductors. <i>Physical Review Letters</i> , 2009 , 102, 127004	7-4	144
2178	Pseudoisotropic upper critical field in cobalt-doped SrFe_2As_2 epitaxial films. <i>Physical Review Letters</i> , 2009 , 102, 117004	7-4	99
2177	In situ fabrication of cobalt-doped SrFe_2As_2 thin films by using pulsed laser deposition with excimer laser. 2009 , 95, 062507		38
2176	Insular superconductivity in a Co-doped iron pnictide $\text{CaFe}_{1-x}\text{Co}_x\text{AsF}$. <i>Physical Review Letters</i> , 2009 , 103, 027002	7-4	39
2175	Optical spectroscopy of superconducting $\text{Ba}_{0.55}\text{K}_{0.45}\text{Fe}_2\text{As}_2$: evidence for strong coupling to low-energy bosons. <i>Physical Review Letters</i> , 2009 , 102, 187003	7-4	62

2174	Doping driven (π , 0) nesting and magnetic properties of Fe_{1+x}Te superconductors. <i>Physical Review Letters</i> , 2009 , 103, 067001	7.4	90
2173	Superconductivity in the iron-pnictide parent compound SrFe_2As_2 . 2009 ,		
2172	Effects of magnetic doping and temperature dependence of phonon dynamics in $\text{CaFe}_{1-x}\text{Co}_x\text{AsF}$ compounds ($x=0, 0.06$, and 0.12). 2009 , 79,		20
2171	Enhanced superfluid stiffness, lowered superconducting transition temperature, and field-induced magnetic state of the pnictide superconductor LiFeAs . 2009 , 79,		41
2170	Vortex core states in a minimal two-band model for iron-based superconductors. 2009 , 80,		19
2169	Cleavage surfaces of the $\text{BaFe}_{2-x}\text{Co}_x\text{As}_2$ and $\text{Fe}_y\text{Se}_{1-x}\text{Te}_x$ superconductors: A combined STM plus LEED study. 2009 , 80,		79
2168	Magnetic and lattice coupling in single-crystal SrFe_2As_2 : A neutron scattering study. 2009 , 80,		22
2167	Origin of the structural phase transition in BaNi_2As_2 at 130 K: A combined study of optical spectroscopy and band structure calculations. 2009 , 80,		31
2166	Evolution of bulk superconductivity in SrFe_2As_2 with Ni substitution. 2009 , 79,		59
2165	Strongly dissimilar vortex-liquid regimes in single-crystalline $\text{NdFeAs}(\text{O},\text{F})$ and $(\text{Ba},\text{K})\text{Fe}_2\text{As}_2$: A comparative study. 2009 , 80,		25
2164	Evidence for two-gap superconductivity in $\text{Ba}_{0.55}\text{K}_{0.45}\text{Fe}_2\text{As}_2$ from directional point-contact Andreev-reflection spectroscopy. 2009 , 79,		91
2163	Magnetic structure of EuFe_2As_2 determined by single-crystal neutron diffraction. 2009 , 80,		139
2162	Evidence for local moments by electron spin resonance study of polycrystalline $\text{LaFeAsO}_{1-x}\text{F}_x$ ($x=0$ and 0.13). 2009 , 79,		14
2161	Complete pressure-dependent phase diagrams for SrFe_2As_2 and BaFe_2As_2 . 2009 , 79,		158
2160	Lattice collapse and the magnetic phase diagram of $\text{Sr}_{1-x}\text{Ca}_x\text{Co}_2\text{P}_2$. 2009 , 80,		43
2159	Thermal expansion of $\text{LaFeAsO}_{1-x}\text{F}_x$: Evidence for high-temperature fluctuations. 2009 , 80,		26
2158	Antiphase magnetic boundaries in iron-based superconductors: A first-principles density-functional theory study. 2009 , 80,		9
2157	Magnetic ordering in EuRh_2As_2 studied by x-ray resonant magnetic scattering. 2009 , 79,		17

2156	Resistivity anisotropy of AFe ₂ As ₂ (A=Ca, Sr, Ba): Direct versus Montgomery technique measurements. 2009 , 79,		75
2155	Optical study of the spin-density-wave properties of single-crystalline Na _{1-δ} FeAs. 2009 , 80,		18
2154	First-principles investigation of the effect of pressure on BaFe ₂ As ₂ . 2009 , 79,		19
2153	Vortex-glass phase transition and superconductivity in an underdoped (Ba,K)Fe ₂ As ₂ single crystal. 2009 , 79,		51
2152	Suppression of spin-density-wave transition and emergence of ferromagnetic ordering of Eu ²⁺ moments in EuFe ₂ NiAs ₂ . 2009 , 79,		43
2151	Electronic structure and magnetism in BaMn ₂ As ₂ and BaMn ₂ Sb ₂ . 2009 , 79,		98
2150	Infrared phonon anomaly in BaFe ₂ As ₂ . 2009 , 80,		72
2149	Phonon anomalies in pure and underdoped R _{1-δ} K _δ Fe ₂ As ₂ (R=Ba, Sr) investigated by Raman light scattering. 2009 , 80,		65
2148	Thermoelectric power and Hall coefficient measurements on Ba(Fe _{1-δ} T _δ) ₂ As ₂ (T=Co and Cu). 2009 , 80,		79
2147	Probing microscopic variations of superconductivity on the surface of Ba(Fe _{1-δ} Co _δ) ₂ As ₂ single crystals. 2009 , 80,		5
2146	Fermi-liquid state and enhanced electron correlations in the iron pnictide CaFe ₄ As ₃ . 2009 , 80,		16
2145	Unusual doping dependence of superconductivity in Na _y FeAs. 2009 , 79,		19
2144	Phonon spectra in CaFe ₂ As ₂ and Ca _{0.6} Na _{0.4} Fe ₂ As ₂ : Measurement of the pressure and temperature dependence and comparison with ab initio and shell model calculations. 2009 , 79,		17
2143	Anisotropic phase diagram and strong coupling effects in Ba _{1-δ} K _δ Fe ₂ As ₂ from specific-heat measurements. 2009 , 79,		56
2142	Multiple phase transitions in single-crystalline Na _{1-δ} FeAs. <i>Physical Review Letters</i> , 2009 , 102, 227004		95
2141	Low-temperature magnetothermal transport investigation of a Ni-based superconductor BaNi ₂ As ₂ : evidence for fully gapped superconductivity. <i>Physical Review Letters</i> , 2009 , 102, 147004	7-4	43
2140	Microwave surface-impedance measurements of the magnetic penetration depth in single crystal Ba _{1-x} K _x Fe ₂ As ₂ superconductors: evidence for a disorder-dependent superfluid density. <i>Physical Review Letters</i> , 2009 , 102, 207001	7-4	138
2139	Static and dynamic magnetism in underdoped superconductor BaFe _{1.92} Co _{0.08} As ₂ . <i>Physical Review Letters</i> , 2009 , 103, 087002	7-4	145

2138	Transition from three-dimensional anisotropic spin excitations to two-dimensional spin excitations by electron doping the FeAs-based BaFe _{1.96} Ni _{0.04} As ₂ superconductor. <i>Physical Review Letters</i> , 2009 , 103, 087005	7.4	34
2137	Raman phonons of H-FeTe and Fe _{1.03} Se _{0.3} Te _{0.7} single crystals. 2009 , 79,		52
2136	Electronic structure of BaCu ₂ As ₂ and SrCu ₂ As ₂ : sp-band metals. 2009 , 79,		38
2135	Observation of the Josephson effect in Pb/Ba _{1-x} K _x Fe ₂ As ₂ single crystal junctions. <i>Physical Review Letters</i> , 2009 , 102, 147002	7.4	83
2134	Renormalized behavior and proximity of BaCo ₂ As ₂ to a magnetic quantum critical point. 2009 , 79,		93
2133	Magnetic structure of EuFe ₂ As ₂ as determined by resonant x-ray scattering. 2009 , 80,		51
2132	Magnetic order in BaMn ₂ As ₂ from neutron diffraction measurements. 2009 , 80,		126
2131	Structural and electronic properties of the 17 K superconductor Sr ₂ ScFePO ₃ in comparison to Sr ₂ ScFeAsO ₃ from first principles calculations. 2009 , 79,		32
2130	Effects of magnetic ordering on dynamical conductivity: Optical investigations of EuFe ₂ As ₂ single crystals. 2009 , 79,		84
2129	Microstructure and tetragonal-to-orthorhombic phase transition of AFe ₂ As ₂ (A=Sr,Ca) as seen via transmission electron microscopy. 2009 , 79,		26
2128	Dirac nodal pockets in the antiferromagnetic parent phase of FeAs superconductors. 2009 , 80,		48
2127	Band-structure reorganization across the magnetic transition in BaFe ₂ As ₂ seen via high-resolution angle-resolved photoemission. 2009 , 80,		45
2126	Superconductivity at 2.2 K in the layered oxypnictide La ₃ Ni ₄ P ₄ O ₂ . 2009 , 79,		22
2125	Magnetic, transport, and thermal properties of single crystals of the layered arsenide BaMn ₂ As ₂ . 2009 , 79,		93
2124	First-principles calculations of the effect of pressure on the iron-based superconductor LaFeAsO. 2009 , 80,		6
2123	Electronic phase diagram of the iron-based high-T _c superconductor Ba(Fe _{1-x} Cox) ₂ As ₂ under hydrostatic pressure (0 ≤ x ≤ 0.099). 2009 , 79,		38
2122	Physical properties of the layered pnictide oxides Na ₂ Ti ₂ P ₂ O (P=As,Sb). 2009 , 80,		51
2121	Inelastic neutron-scattering measurements of a three-dimensional spin resonance in the FeAs-based BaFe _{1.9} Ni _{0.1} As ₂ superconductor. <i>Physical Review Letters</i> , 2009 , 102, 107006	7.4	161

2120	First-order magnetic transition in single-crystalline CaFe ₂ As ₂ detected by A75s nuclear magnetic resonance. 2009 , 79,	52
2119	Small anisotropy, weak thermal fluctuations, and high field superconductivity in Co-doped iron pnictide Ba(Fe _{1-x} Co _x) ₂ As ₂ . 2009 , 94, 062511	300
2118	Superconductivity in undoped single crystals of BaFe(2)As(2): field and current dependence. 2009 , 21, 342201	14
2117	Spin gap and resonance at the nesting wave vector in superconducting FeSe _{0.4} Te _{0.6} . <i>Physical Review Letters</i> , 2009 , 103, 067008	7.4 201
2116	Pressure-induced magnetic transition and volume collapse in FeAs superconductors: an orbital-selective Mott scenario. 2009 , 11, 055064	33
2115	Fabrication of the Iron-Based Superconducting Wire Using Fe(Se,Te). 2009 , 2, 083004	103
2114	Magnetoresistance in Parent Pnictide AFe ₂ As ₂ (A = Sr, Ba). 2009 , 26, 107401	2
2113	Conventional superconductivity in Fe-based pnictides: The relevance of intra-band electron-boson scattering. 2009 , 85, 47008	11
2112	Growth of large single crystals of BaFe _{1.87} Co _{0.13} As ₂ using a nucleation pole. 2009 , 22, 105006	10
2111	The metal-insulator transition in Fe(1.01-x)Cu(x)Se. 2009 , 21, 305701	63
2110	The magnetoresistance of a PrFeAsO _{1-x} F _y superconductor. 2009 , 22, 095015	18
2109	DOPING INDUCED ELECTRONIC PHASE SEPARATION AND COULOMB BUBBLES IN LAYERED SUPERCONDUCTORS. 2009 , 23, 4198-4215	2
2108	High-T _c superconductivity induced by doping rare-earth elements into CaFeAsF. 2009 , 85, 67003	73
2107	Electronic structure of heavily electron-doped BaFe _{1.7} Co _{0.3} As ₂ studied by angle-resolved photoemission. 2009 , 11, 025020	114
2106	Angular and field properties of the critical current and melting line of Co-doped SrFe ₂ As ₂ epitaxial films. 2009 , 22, 125011	23
2105	Possible high temperature superconductivity in a Ti-doped A ₂ Sc ₂ Fe ₂ As ₂ (A = Ca, Sr) system. 2009 , 22, 072001	41
2104	High-pressure growth of fluorine-free SmFeAsO _{1-x} superconducting single crystals. 2009 , 22, 075023	19
2103	Feshbach resonance and mesoscopic phase separation near a quantum critical point in multiband FeAs-based superconductors. 2009 , 22, 014004	74

2102	Successive Phase Transitions under High Pressure in FeTe _{0.92} . 2009 , 78, 083709	49
2101	Antiferromagnetic Fluctuations in Fe(Se _{1-x} Tex) _{0.92} (x= 0.75, 1) Observed by Inelastic Neutron Scattering. 2009 , 78, 103704	23
2100	Anisotropic spin fluctuations and multiple superconducting gaps in hole-doped Ba _{0.72} K _{0.28} Fe ₂ As ₂ : NMR in a single crystal. 2009 , 87, 27012	63
2099	Spin Susceptibility, Phase Diagram, and Quantum Criticality in the Electron-Doped High T _c Superconductor Ba(Fe _{1-x} Co _x) ₂ As ₂ . 2009 , 78, 013711	153
2098	Anisotropy of the Upper Critical Field in a Co-Doped BaFe ₂ As ₂ Single Crystal. 2009 , 78, 084719	102
2097	Superconductivity in Layered Pnictides BaRh ₂ P ₂ and BaIr ₂ P ₂ . 2009 , 78, 023706	38
2096	Abrupt Emergence of Pressure-Induced Superconductivity of 34 K in SrFe ₂ As ₂ : A Resistivity Study under Pressure. 2009 , 78, 013709	101
2095	Resistivity and Upper Critical Field in KFe ₂ As ₂ Single Crystals. 2009 , 78, 063702	80
2094	A structural study of the hole-doped superconductors Pr _{1-x} Sr _x FeAsO. 2009 , 11, 083003	8
2093	The structural and physical properties of Ba(1-x)Sr(x)Fe(2)As(2) (0 ≤ x ≤ 1) and Ba(1-x)Sr(x)Fe(1.8)Co(0.2)As(2) (0 ≤ x ≤ 1). 2009 , 21, 495701	8
2092	Elastic theory for the vortex-lattice melting in iron-based high-T _c superconductors. 2009 , 11, 035003	3
2091	Magnetic impurities in the pnictide superconductor Ba _{1-x} K _x Fe ₂ As ₂ . 2009 , 11, 055002	14
2090	First Principles Study on FeAs Single Layers. 2009 , 22, 139-142	1
2089	Interplay between magnetism and superconductivity and the appearance of a second superconducting transition in FeSe at high pressure. 2009 , 21, 415701	13
2088	Superconductivity induced by Ni doping in BaFe ₂ As ₂ single crystals. 2009 , 11, 025008	228
2087	Synthesis of LnFeAsO _{1-x} superconductors (Ln=La and Nd) using the high-pressure technique. 2009 , 11, 045002	5
2086	Possible Multiple Gap Superconductivity with Line Nodes in Heavily Hole-Doped Superconductor KFe ₂ As ₂ Studied by ⁷⁵ As Nuclear Quadrupole Resonance and Specific Heat. 2009 , 78, 083712	127
2085	Superconducting gap symmetry of Ba _{0.6} K _{0.4} Fe ₂ As ₂ studied by angle-resolved photoemission spectroscopy. 2009 , 85, 67002	183

2084	Effect of 3d transition metal doping on the superconductivity in quaternary fluoroarsenide CaFeAsF. 2009 , 11, 025012	43
2083	Competition of magnetism and superconductivity in underdoped (Ba _{1-x} K _x)Fe ₂ As ₂ . 2009 , 11, 025014	83
2082	Pairing in the iron arsenides: a functional RG treatment. 2009 , 11, 055058	61
2081	The band structure and Fermi surface of (Sr ₃ Sc ₂ O ₅)Fe ₂ As ₂ . 2009 , 21, 415702	1
2080	Metamagnetic transition in EuFe ₂ As ₂ single crystals. 2009 , 11, 025007	89
2079	Heavy-anion solvation of polarity fluctuations in pnictides. 2009 , 86, 17006	47
2078	Effect of tetrahedral distortion on the electronic properties of iron pnictides. 2009 , 11, 013051	24
2077	The superconductor KxSr _{1-x} Fe ₂ As ₂ : normal state and superconducting properties. 2009 , 11, 025013	31
2076	Muon spin rotation study of magnetism and superconductivity in BaFe ₂ As ₂ and Pr _{1-x} Sr _x FeAsO. 2009 , 11, 055050	40
2075	Pressure Effects on Superconductivity and Magnetism in FeSe _{1-x} Tex. 2009 , 78, 084710	26
2074	Superconductivity in some heavy rare-earth iron arsenide REFeAsO _{1-x} (RE = Ho, Y, Dy and Tb) compounds. 2009 , 11, 025005	28
2073	Competition/coexistence of magnetism and superconductivity in iron pnictides probed by muon spin rotation. 2009 , 11, 035006	22
2072	Specific heat anomalies for [Formula: see text] in superconducting single crystal doped BaFe ₂ As ₂ : comparison of different flux growth methods. 2009 , 21, 252201	22
2071	Possible Superconductivity above 25 K in Single-Crystalline Co-Doped BaFe ₂ As ₂ . 2009 , 78, 023702	96
2070	High-TC superconductivity related to deep inner orbital coupling in FeAs-based compounds. 2009 , 105, 07E317	
2069	Electronic Structure of Superconducting FeSe Studied by High-Resolution Photoemission Spectroscopy. 2009 , 78, 034708	34
2068	Relationship between Structure and Superconductivity in FeSe _{1-x} Tex. 2009 , 78, 074718	85
2067	Fermi Surface in BaNi ₂ P ₂ . 2009 , 78, 033706	20

2066	Superconductivity in fluoride-arsenide Sr 1-x La x FeAsF compounds. 2009 , 85, 17011	53
2065	Three-Dimensional Electronic Structure of Superconducting Iron Pnictides Observed by Angle-Resolved Photoemission Spectroscopy. 2009 , 78, 123706	61
2064	Quantum oscillations in antiferromagnetic CaFe(2)As(2) on the brink of superconductivity. 2009 , 21, 322202	16
2063	Superconductivity up to 30 K in the vicinity of the quantum critical point in BaFe(2)(As(1-x)P(x))(2). 2009 , 21, 382203	226
2062	Research and Prospects of Iron-Based Superconductors. 2009 , 21, 4584-4592	139
2061	Superconductivity of powder-in-tube Sr0.6K0.4Fe2As2 wires. 2009 , 469, 717-720	64
2060	Penetration depth, lower critical fields, and quasiparticle conductivity in Fe-arsenide superconductors. 2009 , 469, 590-598	15
2059	The synthesis and characterization of LiFeAs and NaFeAs. 2009 , 469, 326-331	110
2058	BaT2As2 single crystals (T=Fe, Co, Ni) and superconductivity upon Co-doping. 2009 , 469, 350-354	34
2057	High pressure studies on Fe-pnictide superconductors. 2009 , 469, 385-395	90
2056	Normal state transport properties in single crystals of Ba1-xKxFe2As2 andNdFeAsO1-xFx. 2009 , 469, 477-484	18
2055	Structural, magnetic and superconducting phase transitions in CaFe2As2 under ambient and applied pressure. 2009 , 469, 404-412	106
2054	Mössbauer spectroscopy studies of oxypnictides superconductors. 2009 , 469, 485-490	30
2053	Fermi surface of Ba1-xKxFe2As2 as probed by angle-resolved photoemission. 2009 , 469, 448-451	24
2052	Single crystals of LnFeAsO1-xFx (Ln=La, Pr, Nd, Sm, Gd) and Ba1-xRbxFe2As2: Growth, structure and superconducting properties. 2009 , 469, 370-380	110
2051	Electronic properties of iron arsenic high temperature superconductors revealed by angle resolved photoemission spectroscopy (ARPES). 2009 , 469, 491-497	22
2050	Electronic structure, magnetism and superconductivity of layered iron compounds. 2009 , 469, 886-889	14
2049	First-principle calculation for the phonon structure on iron-based superconductors. 2009 , 469, 1024-1026	6

2048	Sn4As3 revisited: Solvothermal synthesis and crystal and electronic structure. 2009 , 182, 630-639	22
2047	Nickel deficiency in RENi2P2 (RE=La, Ce, Pr). Combined crystallographic and physical property studies. 2009 , 182, 1473-1480	17
2046	The Tetragonal to Orthorhombic Structural Phase Transition in Multiband FeAs-based Superconductors. 2009 , 22, 305-308	19
2045	Unity in the Diversity. 2009 , 22, 527-528	6
2044	The Microstrain-Doping Phase Diagram of the Iron Pnictides: Heterostructures at Atomic Limit. 2009 , 22, 589-593	25
2043	Electron-Conduction Mechanism and Specific Heat Above Transition Temperature in LaFeAsO and BaFe2As2 Superconductors. 2009 , 22, 785-789	8
2042	Tunneling Conductance of Ba1-xKxFe2As2/CaAs Junction. 2009 , 22, 719-722	2
2041	Quest for new materials: Inorganic chemistry plays a crucial role. 2009 , 121, 235-256	3
2040	Superconductivity in Ba1-xSmxFeAs and Eu1-xSmxFeAs systems. 2009 , 54, 1872-1875	1
2039	Band structure, Fermi surface, and superconducting gap in FeAs-based superconductors revealed by angle-resolved photoemission spectroscopy. 2009 , 4, 427-432	4
2038	The Layered Iron Arsenide Oxides Sr2CrO3FeAs and Ba2ScO3FeAs. 2009 , 635, 2242-2248	27
2037	Nearly isotropic superconductivity in (Ba,K)Fe(2)As(2). 2009 , 457, 565-8	420
2036	Similarities between structural distortions under pressure and chemical doping in superconducting BaFe2As2. 2009 , 8, 471-5	243
2035	A key role for unusual spin dynamics in ferropnictides. 2009 , 5, 141-145	237
2034	Spin waves and magnetic exchange interactions in CaFe2As2. 2009 , 5, 555-560	331
2033	Normal-state electrical resistivity and superconducting magnetic penetration depth in Eu0.5K0.5Fe2As2 polycrystals. 2009 , 89, 294-297	8
2032	Transport properties and the anisotropy of Ba1-xKxFe2As2 single crystals in normal and superconducting states. 2009 , 90, 130-133	12
2031	Unconventional superconductivity originating from disconnected Fermi surfaces in the iron-based compound. 2009 , 404, 700-705	5

2030	Two gap superconductivity in Ba _{0.55} K _{0.45} Fe ₂ As ₂ single crystals studied by the directional point-contact Andreev reflection spectroscopy. 2009 , 404, 3220-3222	1
2029	Electronic and magnetic properties of 3d transition-metal selenides from first principles. 2009 , 149, 505-509	19
2028	Superconductivity and single crystal growth of Ni _{0.05} TaS ₂ . 2009 , 149, 1296-1299	11
2027	Structural, electronic properties and intra-atomic bonding in new ThCr ₂ Si ₂ -like arsenides SrRu ₂ As ₂ , BaRu ₂ As ₂ , SrRh ₂ As ₂ and BaRh ₂ As ₂ from first principles calculations. 2009 , 149, 1860-1865	17
2026	Atomically-flat, chemically-stable, superconducting epitaxial thin film of iron-based superconductor, cobalt-doped BaFe ₂ As ₂ . 2009 , 149, 2121-2124	65
2025	Growth of NdFeAs(O _{1-x} F _x) single crystals at ambient pressure and their transport properties. 2009 , 311, 358-361	20
2024	Elastic properties and chemical bonding in ternary arsenide SrFe ₂ As ₂ and quaternary oxyarsenide LaFeAsO – Basic phases for new 38 K superconductors from first principles. 2009 , 469, 15-19	32
2023	Novel superconducting characteristics and unusual normal-state properties in iron-based pnictide superconductors: ⁵⁷ FeNMR and ⁷⁵ AsNQR/NMR studies in REFeAsO _{1-x} (RE=La, Pr, Nd) and Ba _{0.6} K _{0.4} Fe ₂ As ₂ . 2009 , 469, 559-565	23
2022	Specific heat and phase diagrams of single crystal iron pnictide superconductors. 2009 , 469, 575-581	17
2021	Anisotropic London penetration depth and superfluid density in single crystals of iron-based pnictide superconductors. 2009 , 469, 582-589	53
2020	Two classes of superconductors discovered in our material research: Iron-based high temperature superconductor and electride superconductor. 2009 , 469, 314-325	45
2019	Temperature dependence of the lower critical field H _{c1} in SmFeAsO _{0.9} F _{0.1} and Ba _{0.6} K _{0.4} Fe ₂ As ₂ iron-arsenide superconductors. 2009 , 469, 599-605	20
2018	Superconductivity, magnetism and crystal chemistry of Ba _{1-x} K _x Fe ₂ As ₂ . 2009 , 469, 332-339	55
2017	Pairing symmetry and pairing state in ferropnictides: Theoretical overview. 2009 , 469, 614-627	334
2016	Heteroepitaxial film growth of layered compounds with the ZrCuSiAs-type and ThCr ₂ Si ₂ -type structures: From Cu-based semiconductors to Fe-based superconductors. 2009 , 469, 657-666	37
2015	Doping – Dependent irreversible magnetic properties of Ba(Fe _{1-x} Cox) ₂ As ₂ single crystals. 2009 , 469, 667-673	34
2014	Parent phase and superconductors in the fluorine derivative family. 2009 , 469, 381-384	15
2013	Ni ₂ X ₂ (X = pnictide, chalcogenide, or B) based superconductors. 2009 , 469, 396-403	51

2012	Electronic structure of Fe-based superconductors. 2009 , 469, 418-424		117
2011	Point contact Andreev reflection spectroscopy of superconducting energy gaps in 122-type family of iron pnictides. 2009 , 469, 507-511		58
2010	Determination of superconducting gap of SmFeAsF _x O _{1-x} superconductors by Andreev reflection spectroscopy. 2009 , 469, 521-528		20
2009	Vortex imaging in Co-doped BaFe ₂ As ₂ . 2009 , 469, 529-534		27
2008	Optical and Raman spectroscopy studies on Fe-based superconductors. 2009 , 469, 545-558		44
2007	Scanning tunneling microscopy and spectroscopy on iron-pnictides. 2009 , 469, 535-544		38
2006	Superconductivity in the hole-doped oxy-arsenide RE _{1-x} Sr _x FeAsO (RE=La, Pr). 2009 , 469, 894-897		5
2005	Transport properties of single crystal BaNi ₂ P ₂ . 2009 , 469, 905-907		1
2004	Magneto-optical imaging of iron-oxypnictide SmFeAsO _{1-x} F _x and SmFeAsO _{1-x} . 2009 , 469, 915-920		27
2003	FeTe as a candidate material for new iron-based superconductor. 2009 , 469, 1027-1029		61
2002	Superconductivity induced by doping Ru in SrFe _{2-x} Ru _x As ₂ . 2009 , 469, 1921-1924		16
2001	The first-principles studying LaOMnSe: A possible parent compound of superconductor. 2009 , 374, 351-354		4
2000	Suppression of spin density wave by isoelectronic substitution in PrFe _{1-x} Ru _x AsO. 2009 , 182, 2326-2331		36
1999	Superconductivity in Ti-doped iron-arsenide compound Sr ₄ Cr _{0.8} Ti _{1.2} O ₆ Fe ₂ As ₂ . 2009 , 52, 1876-1878		7
1998	Electronic structure and unusual exchange splitting in the spin-density-wave state of the BaFe ₂ As ₂ parent compound of iron-based superconductors. <i>Physical Review Letters</i> , 2009 , 102, 107002	7.4	137
1997	Charge dynamics of the spin-density-wave state in BaFe ₂ As ₂ . 2009 , 67, 513-517		23
1996	Synthesis and physical properties of LaO _{1-x} F _x FeAs. 2009 , 70, 461-468		41
1995	Extreme sensitivity of superconductivity to stoichiometry in Fe _{1+y} . 2009 , 79,		530

1994	Structural phase transitions and superconductivity in Fe(1+delta)Se0.57Te0.43 at ambient and elevated pressures. 2009 , 131, 16944-52		96
1993	Superconductivity of FeSe0.89 crystal with hexagonal and tetragonal structures. 2009 , 22, 075016		24
1992	Substitution Effects on FeSe Superconductor. 2009 , 78, 074712		280
1991	Coexistence of the spin-density wave and superconductivity in Ba $1-x$ K x Fe 2 As 2. 2009 , 85, 17006		296
1990	Superconducting fluctuations in the reversible magnetization of the iron-pnictide Ba $1-x$ KxFe2As2. 2009 , 80,		27
1989	Two-gap superconductivity in the Fe-1111 superconductor LaFeAsO $1-x$ Fx: A point-contact Andreev-reflection study. 2009 , 7,		7
1988	Suppression of superconductivity in FeSe films under tensile strain. 2009 , 94, 242505		89
1987	Fermi surface nesting induced strong pairing in iron-based superconductors. 2009 , 106, 7330-3		294
1986	Angle-resolved photoemission spectroscopy of the Fe-Based Ba0.6K0.4Fe2As2 high temperature superconductor: evidence for an orbital selective electron-mode coupling. <i>Physical Review Letters</i> , 2009 , 102, 047003	7.4	65
1985	Determination of the phase diagram of the electron-doped superconductor Ba(Fe $1-x$ Cox)2As2. 2009 , 79,		447
1984	Absence of superconductivity in hole-doped BaFe2 x Cr x As2 single crystals. 2009 , 79,		94
1983	Decoupling of the superconducting and magnetic/structural phase transitions in electron-doped BaFe2As2. 2009 , 80,		174
1982	Superconducting and ferromagnetic phases induced by lattice distortions in stoichiometric SrFe2As2 single crystals. <i>Physical Review Letters</i> , 2009 , 103, 037005	7.4	86
1981	CaFe4As3: a metallic iron arsenide with anisotropic magnetic and charge-transport properties. 2009 , 131, 5405-7		29
1980	Zero-resistance superconducting phase in BaFe2As2 under high pressure. 2009 , 79,		54
1979	Absence of superconductivity in single-phase CaFe2As2 under hydrostatic pressure. 2009 , 79,		146
1978	Sr3Sc2Fe2As2O5 as a possible parent compound for FeAs-based superconductors. 2009 , 79,		124
1977	New iron-based arsenide oxides (Fe2As2)(Sr4M2O6)(M = Sc, Cr). 2009 , 22, 085001		69

1976	Spontaneous formation of a superconducting and antiferromagnetic hybrid state in SrFe ₂ As ₂ under high pressure. <i>Physical Review Letters</i> , 2009 , 103, 257002	7.4	48
1975	First-Principles Study for the Anisotropy of Iron-Based Superconductors toward Power and Device Applications. 2009 , 78, 123712		42
1974	Structure, antiferromagnetism and superconductivity of the layered iron arsenide NaFeAs. 2009 , 2189-91		178
1973	Superconductivity in SrPd ₂ Ge ₂ . 2009 , 79,		43
1972	Scanning tunneling spectroscopy and vortex imaging in the iron pnictide superconductor BaFe _{1.8} Co _{0.2} As ₂ . <i>Physical Review Letters</i> , 2009 , 102, 097002	7.4	221
1971	Coexistence of competing antiferromagnetic and superconducting phases in the underdoped Ba(Fe _{0.953} Co _{0.047}) ₂ As ₂ compound using x-ray and neutron scattering techniques. <i>Physical Review Letters</i> , 2009 , 103, 087001	7.4	271
1970	Band structure and fermi surface of an extremely overdoped iron-based superconductor KFe ₂ As ₂ . <i>Physical Review Letters</i> , 2009 , 103, 047002	7.4	182
1969	Effects of two gaps and paramagnetic pair breaking on the upper critical field of SmFeAsO _{0.85} and SmFeAsO _{0.8} F _{0.2} single crystals. 2009 , 80,		79
1968	Anisotropy in the electrical resistivity and susceptibility of superconducting BaFe ₂ As ₂ single crystals. <i>Physical Review Letters</i> , 2009 , 102, 117005	7.4	210
1967	Magnetic, thermal, and transport properties of layered arsenides BaRu ₂ As ₂ and SrRu ₂ As ₂ . 2009 , 79,		29
1966	Tetragonal-to-orthorhombic structural phase transition at 90 K in the superconductor Fe(1.01)Se. <i>Physical Review Letters</i> , 2009 , 103, 057002	7.4	371
1965	Crystal structure of ternary germanides SrM ₂ Ge ₂ (M=Ni and Ir). 2009 , 487, 198-201		15
1964	Electronic phase separation in the slightly underdoped iron pnictide superconductor Ba _{1-x} K _x Fe ₂ As ₂ . <i>Physical Review Letters</i> , 2009 , 102, 117006	7.4	185
1963	Superconductivity in S-substituted FeTe. 2009 , 94, 012503		245
1962	Tunable (deltapi, deltapi)-type antiferromagnetic order in alpha-Fe(Te,Se) superconductors. <i>Physical Review Letters</i> , 2009 , 102, 247001	7.4	559
1961	Anisotropic thermal expansion of Fe _{1.06} Te and FeTe _{0.5} Se _{0.5} single crystals. 2009 , 80,		13
1960	Strong T _c dependence for strained epitaxial Ba(Fe _{1-δ} Cox) ₂ As ₂ thin films. 2009 , 95, 192501		102
1959	First-order magnetic and structural phase transitions in Fe _{1+y} SexTe _{1-δ} . 2009 , 79,		455

1958	Three-band s _B Eliashberg theory and the superconducting gaps of iron pnictides. 2009 , 80,	51
1957	New compounds and structures in the solid state. 2009 , 105, 348	0
1956	Festkörperchemie 2008. 2009 , 57, 239-251	3
1955	Pressure evolution of the low-temperature crystal structure and bonding of the superconductor FeSe (T _c =37 K). 2009 , 80,	485
1954	Pressure-induced superconducting state of antiferromagnetic CaFe ₂ As ₂ . 2009 , 80,	55
1953	Synthesis, crystal structure, and chemical stability of the superconductor FeSe _{1-x} . 2009 , 80,	124
1952	Bulk superconductivity at 14 K in single crystals of Fe _{1+y} TexSe _{1-x} . 2009 , 79,	360
1951	Superconductivity and magnetism in K-doped EuFe(2)As(2). 2009 , 21, 265701	29
1950	Response of superconductivity and crystal structure of LiFeAs to hydrostatic pressure. 2009 , 131, 2986-92	49
1949	Heat capacity measurements on FeAs-based compounds: a thermodynamic probe of electronic and magnetic states. 2009 , 11, 025010	33
1948	High-temperature superconductivity (T _c onset at 34 K) in the high-pressure orthorhombic phase of FeSe. 2009 , 86, 27001	100
1947	Ir doping-induced superconductivity in the SmFeAsO system. 2009 , 131, 10338-9	29
1946	Tight-binding model for iron pnictides. 2009 , 80,	47
1945	High-resolution measurements of the thermal expansion of superconducting Co-doped BaFe ₂ As ₂ . 2009 , 79,	31
1944	Thermal expansion and anisotropic pressure derivatives of T _c in Ba(Fe _{1-x} Cox) ₂ As ₂ single crystals. 2009 , 79,	54
1943	Magnetic and Transport Properties of FeAs Single Crystals. 2009 , 78, 104720	24
1942	Functional renormalization-group study of the doping dependence of pairing symmetry in the iron pnictide superconductors. 2009 , 80,	98
1941	Conducting solids. 2009 , 105, 436	1

1940	Three- to two-dimensional transition of the electronic structure in CaFe ₂ As ₂ : a parent compound for an iron arsenic high-temperature superconductor. <i>Physical Review Letters</i> , 2009 , 102, 167004	7-4	71
1939	Superconductivity in LnFePO (Ln= La, Pr and Nd) single crystals. 2009 , 11, 025018		37
1938	Superconductivity induced by phosphorus doping and its coexistence with ferromagnetism in EuFe ₂ (As _{0.7} P _{0.3}) ₂ . <i>Physical Review Letters</i> , 2009 , 102, 137002	7-4	224
1937	Pnictogen height as a possible switch between high-T _c nodeless and low-T _c nodal pairings in the iron-based superconductors. 2009 , 79,		580
1936	Measurement of anomalous phonon dispersion of CaFe ₂ As ₂ single crystals using inelastic neutron scattering. <i>Physical Review Letters</i> , 2009 , 102, 217001	7-4	39
1935	Suppression of the structural phase transition and lattice softening in slightly underdoped Ba _{1-x} K _x Fe ₂ As ₂ with electronic phase separation. 2009 , 79,		35
1934	Effect of external pressure on the Fe magnetic moment in undoped LaFeAsO from density functional theory: Proximity to a magnetic instability. 2009 , 79,		35
1933	Effect of pressure on the iron arsenide superconductor Li _x FeAs (x=0.8,1.0,1.1). 2009 , 80,		60
1932	Superconductivity at 31 K in the 111-type iron arsenide superconductor Na _{1-x} FeAs induced by pressure. 2009 , 88, 47008		39
1931	Superconducting FeSe _{1-x} Te _x Single Crystals Grown by Optical Zone-Melting Technique. 2009 , 9, 4847-4851		54
1930	Superconductivity at T _c ~14 K in single-crystalline FeTe _{0.61} Se _{0.39} . 2009 , 80,		162
1929	Neutron scattering study of the interplay between structure and magnetism in Ba(Fe _{1-x} Cox) ₂ As ₂ . 2009 , 79,		162
1928	Itinerant antiferromagnetism in BaCr ₂ As ₂ : Experimental characterization and electronic structure calculations. 2009 , 79,		56
1927	The peculiar physical properties and phase diagram of BaFe _{2-x} CoxAs ₂ single crystals. 2009 , 11, 045003		93
1926	Evolution of the bulk properties, structure, magnetic order, and superconductivity with Ni doping in CaFe _{2-x} NixAs ₂ . 2009 , 80,		36
1925	Pi junction to probe antiphase s-wave pairing in iron pnictide superconductors. <i>Physical Review Letters</i> , 2009 , 103, 207001	7-4	37
1924	Functional renormalization-group study of the pairing symmetry and pairing mechanism of the FeAs-based high-temperature superconductor. <i>Physical Review Letters</i> , 2009 , 102, 047005	7-4	408
1923	Multiple gaps in SmFeAsO _{0.9} F _{0.1} revealed by point-contact spectroscopy. 2009 , 22, 015018		68

1922	Phase diagrams of Ba(Fe _{1-x} M _x) ₂ As ₂ single crystals (M=Rh and Pd). 2009 , 80,	151
1921	Jump in specific heat at the superconducting transition temperature in Ba(Fe _{1-x} Cox) ₂ As ₂ and Ba(Fe _{1-x} Nix) ₂ As ₂ single crystals. 2009 , 79,	137
1920	Superconductivity at 17 K in (Fe ₂ P ₂)(Sr ₄ Sc ₂ O ₆): a new superconducting layered pnictide oxide with a thick perovskite oxide layer. 2009 , 22, 075008	204
1919	Preparation and superconductivity of iron selenide thin films. 2009 , 21, 235702	58
1918	Neutron scattering investigation of the magnetic order in single crystalline BaFe ₂ As ₂ . 2009 , 11, 055001	37
1917	Density functional study of excess Fe in Fe _{1+x} Te: Magnetism and doping. 2009 , 79,	149
1916	Effects of pressure on the electronic and structural properties of LaOFeAs. 2009 , 106, 073910	8
1915	Evidence of magnetically driven structural phase transition in RFeAsO (R=La, Sm, Gd, and Tb): A low-temperature x-ray diffraction study. 2009 , 80,	31
1914	Response of the Crystal Structure and Electronic Properties to Calcium Substitution in NdFeAsO. 2009 , 21, 2967-2972	17
1913	Superconductivity up to 29 K in SrFe(2)As(2) and BaFe(2)As(2) at high pressures. 2009 , 21, 012208	361
1912	A new 111-type iron pnictide superconductor LiFeP. 2009 , 87, 37004	70
1911	Zintl phase as dopant source in the flux synthesis of Ba(1-x)K(x)Fe(2)As(2) type superconductors. 2009 , 4965-7	13
1910	To What Extent Iron-Pnictide New Superconductors Have Been Clarified: A Progress Report. 2009 , 78, 062001	632
1909	Structural models of FeSe(x). 2009 , 21, 435702	4
1908	Upper Critical Fields of the 11-System Iron-Chalcogenide Superconductor FeSe _{0.25} Te _{0.75} . 2009 , 78, 113701	78
1907	New correlated electron physics from new materials. 2009 , 404, 2924-2929	16
1906	Electronic and magnetic phase diagram of beta-Fe(1.01)Se with superconductivity at 36.7 K under pressure. 2009 , 8, 630-3	852
1905	Intrinsic Properties of AFe ₂ As ₂ (A= Ba, Sr) Single Crystal under Highly Hydrostatic Pressure Conditions. 2009 , 78, 073706	92

1904	Electronic properties, band structure, and fermi surface instabilities of Ni ¹⁺ /Ni ²⁺ nickelate La ₃ Ni ₂ O ₆ , isoelectronic with superconducting cuprates. <i>Physical Review Letters</i> , 2009 , 102, 046405	7.4	35
1903	Superconductivity at 23 K and low anisotropy in Rb-substituted BaFe ₂ As ₂ single crystals. 2009 , 79,		52
1902	Substitution-induced superconductivity in SrFe ₂ RuAs ₂ (0x). 2009 , 79,		68
1901	Superconductivity, magnetism, and stoichiometry of single crystals of Fe _{1+y} (Te _{1-x} S _x) _z . 2009 , 80,		96
1900	AFe ₂ As ₂ (A = Ca, Sr, Ba, Eu) and SrFe _{2-x} TM _x As ₂ (TM = Mn, Co, Ni): crystal structure, charge doping, magnetism and superconductivity. 2009 , 11, 025023		126
1899	First-principles calculations of the electronic structure of tetragonal alpha-FeTe and alpha-FeSe crystals: evidence for a bicollinear antiferromagnetic order. <i>Physical Review Letters</i> , 2009 , 102, 177003	7.4	242
1898	Transition of stoichiometric Sr ₂ VO ₃ FeAs to a superconducting state at 37.2 K. 2009 , 79,		267
1897	Antiferromagnetism of SrFe ₂ As ₂ Studied by Single-Crystal ⁷⁵ As-NMR. 2009 , 78, 063706		61
1896	Pressure-induced superconductivity in BaFe ₂ As ₂ single crystal. 2009 , 87, 17004		73
1895	Fabrication of Fe-based Superconducting Epitaxial Thin Films by Pulsed Laser Deposition. 2009 , 2, 073002		29
1894	Vortices in superconducting Ba(Fe _{0.93} Co _{0.07}) ₂ As ₂ studied via small-angle neutron scattering and Bitter decoration. 2009 , 79,		46
1893	Interplay between magnetic properties and Fermi surface nesting in iron pnictides. 2009 , 79,		78
1892	Anomalous Pressure Dependence of the Superconducting Transition Temperature in FeSe _{1-x} Studied by DC Magnetic Measurements. 2009 , 78, 093703		28
1891	Pressure-Induced Superconductivity in Iron Pnictide Compound SrFe ₂ As ₂ . 2009 , 78, 025001		68
1890	Fabrication of Iron-based Superconducting Wire. 2009 , 48, 520-521		
1889	Two-Dimensional Spin Density Wave State in LaFeAsO. 2009 , 78, 043705		37
1888	⁷⁵ As NMR Study of Hole-Doped Superconductor Ba _{1-x} K _x Fe ₂ As ₂ (T _c ≈ 38 K). 2009 , 78, 033704		98
1887	Full Gap Superconductivity in Ba _{0.6} K _{0.4} Fe ₂ As ₂ Probed by Muon Spin Rotation. 2009 , 78, 023710		34

1886	Iron-based superconductors. 2009 , 62, 36-40	22
1885	Possible strong electron-lattice interaction and giant magneto-elastic effects in Fe-pnictides. 2009 , 87, 17007	9
1884	Polaron-like conduction in iron pnictides of the Ln-1111 and 1122 families. 2009 , 88, 37004	7
1883	A novel non-Fermi-liquid state in the iron-pnictide FeCrAs. 2009 , 85, 17009	29
1882	Pairing symmetry and properties of iron-based high-temperature superconductors. 2009 , 85, 57007	36
1881	Isotope Effect in Multi-Band and Multi-Channel Attractive Systems and Inverse Isotope Effect in Iron-Based Superconductors. 2009 , 78, 094718	26
1880	Perturbation Theory of High-Tc Superconductivity in Iron Pnictides. 2009 , 78, 034716	28
1879	Evidence for coexistence of superconductivity and magnetism in single-crystals of Co-doped SrFe(2)As(2). 2009 , 21, 102203	13
1878	Structure and physical properties of the new layered oxypnictides Sr ₄ Sc ₂ O ₆ M ₂ As ₂ (M=Fe and Co). 2009 , 86, 57007	23
1877	EuFe ₂ As ₂ under High Pressure: An Antiferromagnetic Bulk Superconductor. 2009 , 78, 083701	103
1876	Contrasting Pressure Effects in Sr ₂ VFeAsO ₃ and Sr ₂ ScFePO ₃ . 2009 , 78, 123707	40
1875	Multiorbital Effects on Antiferromagnetism in Fe Pnictides. 2009 , 78, 083704	29
1874	New Series of Nickel-Based Pnictide Oxide Superconductors (Ni ₂ Pn ₂)(Sr ₄ Sc ₂ O ₆) (Pn= P, As). 2009 , 2, 063007	15
1873	Strong-Coupling Spin-Singlet Superconductivity with Multiple Full Gaps in Hole-Doped Ba _{0.6} K _{0.4} Fe ₂ As ₂ Probed by ⁵⁷ Fe-NMR. 2009 , 78, 103702	96
1872	Electrical resistivity measurements under high pressure for FeTe _{0.92} . 2010 , 200, 012196	5
1871	Antiferromagnetism with ferro-orbital order in Fe pnictides. 2010 , 200, 012097	1
1870	Spin waves in the (0, π) and (0, 0) ordered SDW states of the t-t' Hubbard model: application to doped iron pnictides. 2010 , 22, 422202	6
1869	Magnetic properties of iron pnictides from spin-spiral calculations. 2010 , 200, 032080	

1868	Anomalous phonons in CaFe ₂ As ₂ explored by inelastic neutron scattering. 2010 , 251, 012008	2
1867	Superconductivity in SmFe _{1-x} M _x AsO (M = Co, Rh, Ir). 2010 , 89, 67007	10
1866	Superconductivity and magnetism in Eu _{1-x} K _x Fe ₂ As ₂ . 2010 , 200, 012060	7
1865	⁷⁵ As-NMR study of the iron pnictide Ba _{1-x} K _x Fe ₂ As ₂ under high pressure. 2010 , 215, 012041	4
1864	Critical current characteristics and history dependence in superconducting SmFeAsO bulk. 2010 , 234, 012028	2
1863	Synthesis of High-Density Polycrystalline (Ba, K)Fe ₂ As ₂ Superconductor and Its Critical Properties. 2010 , 74, 453-459	1
1862	Origin of T _c Enhancement Induced by Doping Yttrium and Hydrogen into LaFeAsO-Based Superconductors: ⁵⁷ Fe-, ⁷⁵ As-, ¹³⁹ La-, and ¹ H-NMR Studies. 2010 , 79, 103703	17
1861	Magnetic and Structural Phase Transitions of EuFe ₂ As ₂ Studied via Neutron and Resonant X-ray Scattering. 2010 , 79, 114708	14
1860	Effect of K Doping on Phonons in Ba _{1-x} K _x Fe ₂ As ₂ . 2010 , 79, 014714	12
1859	Pressure-Induced Superconductivity in Eu _{0.5} Ca _{0.5} Fe ₂ As ₂ : Wide Zero-Resistivity Region Due to Suppression of Eu Magnetic Order and Chemical Pressure. 2010 , 79, 073704	8
1858	Evidence for Anisotropic Vortex Dynamics and Pauli Limitation in the Upper Critical Field of FeSe _{1-x} Te _x . 2010 , 79, 053703	46
1857	Weak Superconducting Fluctuations and Small Anisotropy of the Upper Critical Fields in an Fe _{1.05} Te _{0.85} Se _{0.15} Single Crystal. 2010 , 79, 074706	21
1856	Spectroscopic Study of ⁷⁵ As and ¹³⁹ La NMR on Layered Structure Ferromagnet LaCoAsO. 2010 , 79, 054703	16
1855	Magnetic Properties of Single Crystals of Pseudobinary Fe _{1-x} CoxTe _{0.85} System. 2010 , 57, 166-171	
1854	Iron pages of HTSC. 2010 , 111, 313-331	11
1853	Will the iron age of superconductivity become the Mössbauer age?. 2010 , 74, 330-334	1
1852	Electronic structure of Ti-doped Sr ₄ Sc ₂ Fe ₂ As ₂ O ₆ as a possible parent phase for the new FeAs superconductors. 2010 , 8,	5
1851	Tunneling spectroscopy of layered superconductors: intercalated Li _{0.48} (C ₄ H ₈ O) _x HfNCl and De-intercalated HfNCl _{0.7} . 2010 , 73, 471-482	14

1850	Synthesis, structural and physical properties of BaFeSe_{1-x} . 2010 , 77, 101-107	12
1849	Towards a better understanding of superconductivity at high transition temperatures. 2010 , 188, 3-14	4
1848	Phase diagram of the $\text{NdFe}_{1-x}\text{Rh}_x\text{AsO}$ superconductor. 2010 , 4, 67-69	2
1847	Density of phonon states in superconducting FeSe as a function of temperature and pressure. 2010 , 81, 81,	34
1846	Crystal and electronic structure of FeSe at high pressure and low temperature. 2010 , 114, 12597-606	73
1845	Anisotropic fluctuations and quasiparticle excitations in $\text{FeSe}_{0.5}\text{Te}_{0.5}$. 2010 , 82,	27
1844	Pressure dependence of phonon modes across the tetragonal to collapsed-tetragonal phase transition in CaFe_2As_2 . 2010 , 81,	13
1843	Pressure effects on FeSe family superconductors. 2010 , 470, S353-S355	13
1842	Air-exposure effects of superconductivity in $\text{Fe}(\text{Te}, \text{S})$. 2010 , 470, S340-S341	13
1841	Superfluid density of $\text{Ba}(\text{Fe}_{1-x}\text{M}_x)_2\text{As}_2$ from optical experiments. 2010 , 470, S399-S400	10
1840	Superconductivity in 4d and 5d transition metal layered pnictides BaRh_2P_2 , BaIr_2P_2 and SrIr_2As_2 . 2010 , 470, S296-S297	22
1839	^{75}As NMR studies of superconducting $\text{Ba}_{0.72}\text{K}_{0.28}\text{Fe}_2\text{As}_2$. 2010 , 470, S495-S496	
1838	Large transport critical currents of powder-in-tube $\text{Sr}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2/\text{Ag}$ superconducting wires and tapes. 2010 , 470, 183-186	68
1837	New superconducting RbFe_2As_2 : A first-principles investigation. 2010 , 470, 202-205	6
1836	Critical current properties of Ag added $\text{Sr}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$. 2010 , 470, S413-S415	1
1835	Two-dimensionality of electronic structure and strong Fermi surface nesting in highly anisotropic iron-based superconductors. 2010 , 470, 1002-1006	4
1834	MBE growth of FeSe and $\text{Sr}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$. 2010 , 470, 1468-1472	31
1833	Effect of bond length and radius on superconducting transition temperature for FeAs-based superconductors. 2010 , 53, 59-63	3

1832	Heat treatment effects on the superconducting properties of Ag-doped SrKFeAs compounds. 2010 , 53, 1187-1193	3
1831	Cobalt-doping effects in single crystalline and polycrystalline EuFe ₂ As ₂ Co _x As ₂ compounds. 2010 , 53, 1212-1215	5
1830	Low temperature properties of pnictide CrAs single crystal. 2010 , 53, 1207-1211	20
1829	Effect of annealing on superconductivity in Fe _{1+y} (Te _{1-x} S _x) system. 2010 , 53, 1216-1220	4
1828	Structural and transport properties of Sr ₂ VO ₃ FeAs superconductors with different oxygen deficiencies. 2010 , 53, 1202-1206	18
1827	Superconductivity and normal state magnetoresistance in superconducting FeSe:Sb. 2010 , 53, 1180-1186	2
1826	Electronic structures of ternary iron arsenides AFe ₂ As ₂ (A = Ba, Ca, or Sr). 2010 , 5, 150-160	60
1825	High-Field Studies on Single Crystals of EuFe ₂ As ₂ . 2010 , 159, 601-605	11
1824	Orbital-Selective Mott Transitions: Heavy Fermions and Beyond. 2010 , 161, 203-232	54
1823	Critical Current Densities and Vortex Dynamics in Ba(Fe _{1-x} Co _x) ₂ As ₂ Single Crystals. 2010 , 23, 605-608	
1822	Structural and Physical Properties of Ca _{1-x} Sr _x Fe ₂ As ₂ (0 ≤ x ≤ 1.0) and Ca _{0.5} Sr _{0.5} Fe ₂ As ₂ Co _y As ₂ (0 ≤ y ≤ 0.6). 2010 , 23, 749-755	2
1821	Probing the Superconducting Gap from Tunneling Conductance on NdFeAsO _{0.7} with T _C =51 K. 2010 , 23, 575-578	10
1820	The Doping Effect on the Lattices and Electronic Structure in Superconducting Fe-based Compounds Sr _{1-x} K _x Fe ₂ As ₂ . 2010 , 23, 985-988	
1819	Magnetic Properties and Superconductivity in GdFeAsO _{1-x} F _x . 2010 , 23, 625-628	6
1818	The Effects of Pressure on the Fe _{1-x} Co _x As ₂ Superconductor. 2010 , 23, 587-589	
1817	Multiple Superconducting Gaps and Anisotropic Spin Fluctuations in Hole-Doped and Electron-Doped Iron-Pnictides: NMR Studies. 2010 , 23, 609-612	
1816	Band structure and density of states in the normal state of FeSe, Fe ₂ Se ₂ , Fe ₂ Se ₁ and Fe ₂ SeTe superconductors. 2010 , 124, 876-879	2
1815	Synthesis of LaRhAsO and superconductivity within the LaFe _{1-x} Rh _x AsO system. 2010 , 45, 392-395	15

1814	Direct Physical Imaging and Chemical Probing of LiFePO ₄ for Lithium-Ion Batteries. 2010 , 20, 4219-4232	37
1813	New oxypnictide superconductors: PrOFe _{1-x} Co As. 2010 , 183, 338-343	12
1812	Critical properties of superconducting Ba _{1-x} K _x Fe ₂ As ₂ . 2010 , 470, 8-11	7
1811	Characterization of FeSe single crystals. 2010 , 470, S497-S498	8
1810	Ni doping effect and phase diagram of Ni-doped BaFe _{2-x} Ni _x As ₂ . 2010 , 470, S447-S448	6
1809	Doping dependence of magnetic and transport properties in single crystalline Co-doped BaFe ₂ As ₂ . 2010 , 470, S408-S410	7
1808	Superconductivity induced by isovalent doping in single crystals of BaFe ₂ (As _{1-x} P _x) ₂ . 2010 , 470, S462-S463	3
1807	Superconductivity around quantum critical point in P-doped iron arsenides. 2010 , 470, S458-S459	5
1806	Evolution of Fermi surface and superconducting gap by electron doping in Ba(Fe,Co) ₂ As ₂ . 2010 , 470, S449-S451	
1805	Signature of excitonic effect in BaFe ₂ As ₂ revealed by angle-resolved photoemission spectroscopy. 2010 , 470, S435-S437	
1804	Aliovalent ion-doped BaFe ₂ As ₂ : Single crystal growth and superconductivity. 2010 , 470, S513-S515	30
1803	Optical response of FeAs-based compounds. 2010 , 470, S326-S327	4
1802	⁷⁵ As-NMR study of hole-doped iron-based superconductor Ba _{1-x} K _x Fe ₂ As ₂ . 2010 , 470, S464-S465	2
1801	Superconducting anisotropy in single-crystalline Ba(Fe _{0.93} Co _{0.07}) ₂ As ₂ near T _c . 2010 , 470, S813-S814	2
1800	Bulk superconductivity at 2.6 K in undoped RbFe ₂ As ₂ . 2010 , 470, S328-S329	32
1799	Angle-resolved photoemission study of heavily electron-doped BaFe _{2-x} Co As ₂ . 2010 , 470, S394-S396	
1798	Superconducting state of iron arsenide Ba _{1-x} K _x Fe ₂ As ₂ : ⁵⁷ Fe and ⁷⁵ As NMR studies. 2010 , 470, S466-S467	3
1797	Superconductivity in ternary iron silicide YFe ₂ -Bi ₂ single crystal. 2010 , 470, S404-S405	3

1796	A semimetal model of the normal state magnetic susceptibility and transport properties of $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. 2010 , 470, 304-308	27
1795	Characterization of superconductivity in $\text{FeTe}_{0.61}\text{Se}_{0.39}$ single crystal with $T_c \sim 14$ K. 2010 , 470, S391-S393	6
1794	Effects of Ni and Co doping on the physical properties of tetragonal $\text{FeSe}_{0.5}\text{Te}_{0.5}$ superconductor. 2010 , 470, 528-532	35
1793	Yttrium doped $\text{La}_{1-x}\text{Y}_x\text{O}_{0.9}\text{Fe}_{0.1}\text{FeAs}$ superconductors: Hall and thermopower studies. 2010 , 470, 511-515	1
1792	Physical properties of the new superconducting system $\text{Sr}_2\text{VO}_3\text{FeAs}$ (21311). 2010 , 470, S263-S266	2
1791	Pulsed laser deposition and in-field characterization of $\text{FeTe}_{0.8}\text{Se}_{0.2}$ epitaxial thin films with enhanced superconducting properties. 2010 , 470, 1033-1037	5
1790	Growth of superconducting $\text{FeSe}_{0.5}\text{Te}_{0.5}$ thin films by pulsed-laser deposition. 2010 , 470, 1038-1041	8
1789	First-principles calculations for anisotropy of iron-based superconductors. 2010 , 470, 1066-1069	2
1788	Elastic properties of mono- and poly-crystalline PbO-type $\text{FeSe}_{1-x}\text{Te}_x$ ($x=0-1.0$): A first-principles study. 2010 , 470, 2072-2075	23
1787	Potential parent compound of superconductor: $\text{Sr}_2\text{CuM}_2\text{As}_2\text{O}_2$ ($M=\text{Mn, Fe}$). 2010 , 374, 4727-4731	4
1786	Structural and superconductivity study on M-FeSe_x . 2010 , 71, 495-498	27
1785	First-principles study on the lattice dynamics and thermodynamics properties of CaFe_2As_2 . 2010 , 405, 4226-4230	1
1784	Impurities in FeAs-based superconductor, SrFe_2As_2 , studied by first-principles calculations. 2010 , 173, 244-247	4
1783	Low-temperature fabrication of superconducting FeSe thin films by pulsed laser deposition. 2010 , 519, 1540-1545	32
1782	The crystal structure of. 2010 , 150, 383-385	60
1781	Upper critical fields and critical current density of $\text{BaFe}_2(\text{As}_{0.68}\text{P}_{0.32})_2$ single crystal. 2010 , 150, 1178-1181	16
1780	Evolution of the hyperfine parameters of Fe in superconducting LiFeAs as observed by ^{57}Fe Mössbauer spectroscopy. 2010 , 150, 1525-1528	7
1779	Kohler's rule in $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$. 2010 , 150, 1940-1943	6

1778	Density functional calculations of the electronic structure and magnetism of the different phases of . 2010 , 498, 281-286	
1777	Synthesis, Structure and Chemical Bonding of CaCo ₂ Si ₂ and BaCo ₂ Ge ₂ â€”Two New Compounds with ThCr ₂ Si ₂ Structure Typeâ€” 2010 , 636, 378-384	13
1776	High resolution angle-resolved photoemission spectroscopy on Cu-based and Fe-based high-T _c superconductors. 2010 , 207, 2674-2692	7
1775	Different nature of instabilities in BaFe ₂ As ₂ and BaNi ₂ As ₂ as revealed by optical spectroscopy. 2010 , 247, 495-499	8
1774	Anion height dependence of T _c and the density of states in iron-based superconductors. 2010 , 91, 518-522	38
1773	Electronic structure of novel multiple-band superconductor SrPt ₂ As ₂ . 2010 , 92, 751-755	16
1772	Template engineering of Co-doped BaFe ₂ As ₂ single-crystal thin films. 2010 , 9, 397-402	173
1771	From (pi,0) magnetic order to superconductivity with (pi,pi) magnetic resonance in Fe(1.02)Te(1-x)Se(x). 2010 , 9, 716-20	224
1770	Evolution of spin excitations into the superconducting state in FeTe1â€”Sex. 2010 , 6, 182-186	142
1769	Integer and half-integer flux-quantum transitions in a niobiumâ€”on pnictide loop. 2010 , 6, 260-264	120
1768	Evidence for a Lifshitz transition in electron-doped iron arsenic superconductors at the onset of superconductivity. 2010 , 6, 419-423	205
1767	Electronic and Lattice Dynamical Properties of the Iron-Based Superconductors LiFeAs and NaFeAs. 2010 , 2010, 1-6	31
1766	Spin-Lattice Coupling and Superconductivity in Fe Pnictides. 2010 , 2010, 1-7	27
1765	Competition of Superconductivity and Charge Density Waves in Cuprates: Recent Evidence and Interpretation. 2010 , 2010, 1-40	37
1764	The Phenomenology of Iron Pnictides Superconductors Explained in the Framework of -Wave Three-Band Eliashberg Theory. 2010 , 2010, 1-6	2
1763	Josephson junction in cobalt-doped BaFe ₂ As ₂ epitaxial thin films on (La,Sr)(Al,Ta)O ₃ bicrystal substrates. 2010 , 96, 142507	66
1762	Molecular Beam Epitaxy Growth of Superconducting Sr _{1-x} K _x Fe ₂ As ₂ and Ba _{1-x} K _x Fe ₂ As ₂ . 2010 , 3, 093101	25
1761	Undeca-europium hexa-zinc dodeca-arsenide. 2010 , 66, i24	16

1760	Sizable Residual Quasiparticle Density of States Induced by Impurity Scattering Effect in Ba(Fe _{1-x} Co _x) ₂ As ₂ Single Crystals. 2010 , 27, 037402		33
1759	The role of silver addition on the structural and superconducting properties of polycrystalline Sr _{0.6} K _{0.4} Fe ₂ As ₂ . 2010 , 23, 025027		30
1758	Coexistence between superconducting and spin density wave states in iron-based superconductors: Ginzburg-Landau analysis. 2010 , 23, 054011		28
1757	Disorder effects and current percolation in FeAs-based superconductors. 2010 , 23, 054006		10
1756	Small-angle neutron scattering study of vortices in superconducting Ba(Fe _{0.93} Co _{0.07}) ₂ As ₂ . 2010 , 23, 054007		7
1755	Influence of Pb addition on the superconducting properties of polycrystalline Sr _{0.6} K _{0.4} Fe ₂ As ₂ . 2010 , 23, 054010		19
1754	Pressure-induced unconventional superconductivity near a quantum critical point in CaFe ₂ As ₂ . 2010 , 23, 054004		26
1753	Growth and characterization of Nd(Fe _{1-x} Co _x)AsO single crystals. 2010 , 23, 054008		9
1752	Low-temperature synthesis of SmFeAsO _{0.7} F _{0.3} wires with a high transport critical current density. 2010 , 23, 075005		34
1751	Crystal Growth and Characterization of FeAs-Based Superconductors. 2010 , 638-642, 1412-1415		
1750	Isotropic superconductivity in LaRu ₂ P ₂ with the ThCr ₂ Si ₂ -type structure. 2010 , 23, 115009		13
1749	Observation of lateral long range order in superconducting FeTe thin films. 2010 , 19, 087403		1
1748	Coexistence of Superconductivity and Charge Density Wave in SrPt ₂ As ₂ . 2010 , 79, 123710		82
1747	Chemical Pressure and Physical Pressure in BaFe ₂ (As _{1-x} P _x) ₂ . 2010 , 79, 123706		49
1746	Band structure of the heavily-electron-doped FeAs-based Ba(Fe,Co) ₂ As ₂ superconductor suppresses antiferromagnetic correlations. <i>Physical Review Letters</i> , 2010 , 104, 177002	7.4	12
1745	In situ growth of superconducting NdFeAs(O,F) thin films by molecular beam epitaxy. 2010 , 97, 042509		55
1744	Normal-state hourglass dispersion of the spin excitations in FeSexTe(1-x). <i>Physical Review Letters</i> , 2010 , 105, 157002	7.4	29
1743	Can the Mott insulator TiOCl be metallized by doping? A first-principles study. <i>Physical Review Letters</i> , 2010 , 104, 146402	7.4	8

- 1742 Antiferromagnetic ordering in the absence of structural distortion in $\text{Ba}(\text{Fe}_{1-x}\text{Mn}_x)_2\text{As}_2$. **2010**, 82, 81
- 1741 Distinct high-T transitions in underdoped $\text{Ba}(1-x)\text{KxFe}_2\text{As}_2$. *Physical Review Letters*, **2010**, 105, 107001 7-4 34
- 1740 Superconductivity in SnO : a nonmagnetic analog to Fe-based superconductors?. *Physical Review Letters*, **2010**, 105, 157001 7-4 32
- 1739 Anisotropic thermal expansion of AEFe_2As_2 (AE = Ba, Sr, Ca) single crystals. **2010**, 90, 1219-1227 13
- 1738 Synthesis, anisotropy, and superconducting properties of LiFeAs single crystal. **2010**, 96, 212508 59
- 1737 Ab initio description of disordered $\text{Sr}(1-x)\text{KxFe}_2\text{As}_2$ using the coherent potential approximation. *Physical Review Letters*, **2010**, 104, 177006 7-4 5
- 1736 Evidence from neutron diffraction for superconductivity in the stabilized tetragonal phase of CaFe_2As_2 under uniaxial pressure. **2010**, 81, 39
- 1735 Structural, magnetic, thermal, and electronic transport properties of single-crystal EuPd_2Sb_2 . **2010**, 81, 12
- 1734 Electron-doping evolution of the low-energy spin excitations in the iron arsenide superconductor BaFe_2As_2 . **2010**, 81, 69
- 1733 Weak anisotropy of the superconducting upper critical field in $\text{Fe}_{1.11}\text{Te}_{0.6}\text{Se}_{0.4}$ single crystals. **2010**, 81, 122
- 1732 Electron-hole asymmetry in Co- and Mn-doped SrFe_2As_2 . **2010**, 82, 35
- 1731 Magnetic and superconducting transitions in $\text{Ba}_{1-x}\text{KxFe}_2\text{As}_2$ studied by specific heat. **2010**, 81, 33
- 1730 Electronic structure of CsFe_2Sb_2 and its alloy with cobalt: A magnetic compound related to the iron superconductors. **2010**, 81, 2
- 1729 Electron spin resonance in EuFe_2As_2 single crystals. **2010**, 81, 32
- 1728 Nodes in the gap structure of the iron arsenide superconductor $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ from c-axis heat transport measurements. **2010**, 82, 138
- 1727 Temperature versus doping phase diagrams for $\text{Ba}(\text{Fe}_{1-x}\text{TM}_x)_2\text{As}_2$ (TM=Ni,Cu,Cu/Co) single crystals. **2010**, 82, 169
- 1726 Magnetization distribution in the tetragonal phase of BaFe_2As_2 . **2010**, 82, 7
- 1725 Anisotropic superconducting properties of optimally doped $\text{BaFe}_2(\text{As}_{0.65}\text{P}_{0.35})_2$ under pressure. **2010**, 82, 15

1724	Physical and magnetic properties of Ba(Fe _{1-x} Ru _x) ₂ As ₂ single crystals. 2010 , 82,		93
1723	Suppression of magnetism in SrFe _{2-x} Ru _x As ₂ : First-principles calculations. 2010 , 81,		9
1722	Superconductivity induced by doping platinum in BaFe ₂ As ₂ . 2010 , 81,		24
1721	Magnetic study of SmCoAsO showing a ferromagnetic-antiferromagnetic transition. 2010 , 82,		26
1720	Flux dynamics associated with the second magnetization peak in the iron pnictide Ba _{1-x} K _x Fe ₂ As ₂ . 2010 , 82,		58
1719	Unconventional pairing in the iron arsenide superconductors. 2010 , 81,		174
1718	Neutron diffraction study of phase transitions and thermal expansion of SrFeAsF. 2010 , 81,		18
1717	Signatures of pressure-induced superconductivity in insulating Bi _{1.98} Sr _{2.06} Y _{0.68} CaCu ₂ O _{8+x} . 2010 , 81,		5
1716	Coupling between the structural and magnetic transition in CeFeAsO. 2010 , 81,		42
1715	Phase diagram and gap anisotropy in iron-pnictide superconductors. 2010 , 81,		137
1714	Lattice distortion and magnetic quantum phase transition in CeFeAs(1-x)P(x)O. <i>Physical Review Letters</i> , 2010 , 104, 017204	7-4	57
1713	Impurity scattering rate and coherence factor in vortex core of sign-reversing s-wave superconductors. 2010 , 82,		7
1712	Strong vortex pinning in Co-doped BaFe ₂ As ₂ single crystal thin films. 2010 , 96, 142510		64
1711	Potassium-doped BaFe ₂ As ₂ superconducting thin films with a transition temperature of 40 K. 2010 , 96, 202505		36
1710	Large D-2 theory of superconducting fluctuations in a magnetic field and its application to iron pnictides. <i>Physical Review Letters</i> , 2010 , 105, 037006	7-4	11
1709	Where are the extra d electrons in transition-metal-substituted iron pnictides?. <i>Physical Review Letters</i> , 2010 , 105, 157004	7-4	131
1708	Ultrafast pump-probe study of phase separation and competing orders in the underdoped (Ba,K)Fe ₂ As ₂ superconductor. <i>Physical Review Letters</i> , 2010 , 104, 027003	7-4	81
1707	Heterojunction of Fe(Se _{1-x} Tex) superconductor on Nb-doped SrTiO ₃ . 2010 , 96, 122506		13

1706	NMR evidence of strongly correlated superconductivity in LiFeAs: Tuning toward a spin-density-wave ordering. 2010 , 82,		38
1705	Pair-breaking effects and coherence peak in the terahertz conductivity of superconducting BaFe ₂ As ₂ thin films. 2010 , 82,		31
1704	Magnetic phase transitions in NdCoAsO. 2010 , 81,		42
1703	Competing ferromagnetism and superconductivity on FeAs layers in EuFe ₂ (As _{0.73} P _{0.27}) ₂ . <i>Physical Review Letters</i> , 2010 , 105, 207003	7.4	25
1702	2D structure and charge inhomogeneity at the surface of superconducting BaFe ₂ As ₂ (x=0.32). 2010 , 81,		32
1701	Electronic structure of Fe _{1.04} Te _{0.66} Se _{0.34} . 2010 , 81,		98
1700	Strong coupling to magnetic fluctuations in the charge dynamics of iron-based superconductors. 2010 , 82,		23
1699	Magnetic ordering in blocking layer and highly anisotropic electronic structure of high-T _c iron-based superconductor Sr ₂ VFeAsO ₃ : LDA+U study. 2010 , 82,		22
1698	Strong reduction of the Korringa relaxation in the spin-density wave regime of EuFe ₂ As ₂ observed by electron spin resonance. 2010 , 81,		24
1697	Theory of vortex structure in Josephson junctions with multiple tunneling channels: Vortex enlargement as a probe of s-wave superconductivity. 2010 , 81,		19
1696	Field-induced spin reorientation and giant spin-lattice coupling in EuFe ₂ As ₂ . 2010 , 81,		43
1695	Different response of the crystal structure to isoelectronic doping in BaFe ₂ (As _{1-x} P _x) ₂ and (Ba _{1-x} Sr _x)Fe ₂ As ₂ . 2010 , 82,		63
1694	Magnetic fluctuations and superconductivity in iron pnictides as probed by electron spin resonance. 2010 , 82,		14
1693	Competing order and nature of the pairing state in the iron pnictides. 2010 , 82,		176
1692	Angle-resolved photoemission spectroscopy of the iron-chalcogenide superconductor Fe _{1.03} Te _{0.7} Se _{0.3} : strong coupling behavior and the universality of interband scattering. <i>Physical Review Letters</i> , 2010 , 105, 197001	7.4	107
1691	Superconductivity and spin-density waves in multiband metals. 2010 , 81,		118
1690	Contrasting impurity scattering and pair-breaking effects by doping Mn and Zn in Ba _{0.5} K _{0.5} Fe ₂ As ₂ . 2010 , 81,		58
1689	Spin fluctuations and superconductivity in a three-dimensional tight-binding model for BaFe ₂ As ₂ . 2010 , 81,		180

1688	Transition from antiferromagnetism to superconductivity in the compensated metallic state of $\text{Ba}_{1-x}\text{K}_x(\text{Fe}_{1-y}\text{Co}_y)_2\text{As}_2$. 2010 , 82,		8
1687	Anisotropic superconducting properties of single-crystalline $\text{FeSe}_{0.5}\text{Te}_{0.5}$. 2010 , 81,		108
1686	High-resolution angle-resolved photoemission spectroscopy study of the electronic structure of EuFe_2As_2 . 2010 , 81,		26
1685	Cooperative effects of Coulomb and electron-phonon interactions in the two-dimensional 16-band $d\bar{p}$ model for iron-based superconductors. 2010 , 82,		22
1684	Static and dynamical susceptibility of $\text{LaO}_{1-x}\text{F}_x\text{FeAs}$. 2010 , 81,		6
1683	A_{75} s NMR study of single crystals of the heavily overdoped pnictide superconductors $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ ($x=0.7$ and 1). 2010 , 81,		45
1682	Optical properties of the iron arsenic superconductor $\text{BaFe}_{1.85}\text{Co}_{0.15}\text{As}_2$. 2010 , 82,		72
1681	Spin dynamics in electron-doped iron pnictide superconductors. 2010 , 82,		13
1680	Very strong intrinsic flux pinning and vortex avalanches in $(\text{Ba},\text{K})\text{Fe}_2\text{As}_2$ superconducting single crystals. 2010 , 82,		124
1679	High-pressure synthesis of the indirectly electron-doped iron pnictide superconductor $\text{Sr}_{1-x}\text{La}_x\text{Fe}_2\text{As}_2$ with maximum $T_c=22$ K. 2010 , 82,		29
1678	Dual character of magnetism in EuFe_2As_2 : Optical spectroscopic and density-functional calculation study. 2010 , 81,		40
1677	First-principles investigation of $\text{BaFe}_2\text{As}_2(001)$. 2010 , 82,		7
1676	Nodes versus minima in the energy gap of iron pnictide superconductors from field-induced anisotropy. <i>Physical Review Letters</i> , 2010 , 105, 187004	7.4	21
1675	Renormalization group flow, competing phases, and the structure of superconducting gap in multiband models of iron-based superconductors. 2010 , 82,		71
1674	Neutron spin resonance as a probe of the superconducting energy gap of $\text{BaFe}_{1.9}\text{Ni}_{0.1}\text{As}_2$ superconductors. 2010 , 81,		32
1673	Pauli-limited upper critical field of $\text{Fe}_{1+y}\text{Te}_{1-x}\text{S}_x$. 2010 , 81,		102
1672	Strong carrier-scattering in iron-pnictide superconductors LnFeAsO_{1-x} ($\text{Ln}=\text{La}$ and Nd) obtained from charge transport experiments. 2010 , 81,		21
1671	Microstructure and superconductivity of Ir-doped BaFe_2As_2 superconductor. 2010 , 96, 012507		20

1670	Quasi-two-dimensional Fermi surfaces and coherent interlayer transport in KFe_2As_2 <i>Physical Review Letters</i> , 2010 , 105, 246403	7.4	12
1669	Andreev bound states in iron pnictide superconductors. 2010 , 81,		13
1668	Synthesis, structure, and properties of tetragonal $Sr_2M_3As_2O_2$ ($M_3=Mn_3$, Mn_2Cu , and $MnZn_2$) compounds containing alternating CuO_2 -type and $FeAs$ -type layers. 2010 , 81,		26
1667	Ambegaokar-Baratoff relations for Josephson critical current in heterojunctions with multigap superconductors. 2010 , 81,		29
1666	Transfer of optical spectral weight in magnetically ordered superconductors. 2010 , 82,		32
1665	Surface-driven electronic structure in $LaFeAsO$ studied by angle-resolved photoemission spectroscopy. 2010 , 82,		33
1664	Spin reversal effect in hybrid $s(\mp)$ -wave/ p -wave Josephson junction. 2010 , 22, 225701		2
1663	Nematic electronic structure in the "parent" state of the iron-based superconductor $Ca(Fe_{1-x}Co_x)_2As_2$. 2010 , 327, 181-4		397
1662	Theory of Josephson effects in iron-based multi-gap superconductor junctions. 2010 , 248, 012040		
1661	THE EVOLUTION OF HTS: T_c -EXPERIMENT PERSPECTIVES. 2010 , 24, 4102-4149		5
1660	Effects on superconductivity of transition-metal doping in $FeSe_{0.5}Te_{0.5}$. 2010 , 22, 245701		16
1659	^{75}As NQR and NMR Studies of Superconductivity and Electron Correlations in Iron Arsenide $LiFeAs$. 2010 , 79, 083702		72
1658	Structure and physical properties for a new layered pnictide-oxide: $BaTiAsO$. 2010 , 22, 075702		45
1657	Control of magnetic ordering by altering $Co-Co$ distances in $La_{0.9}R_{0.1}Co_2P_2$ ($R=Ce, Pr, Nd, \text{ and } Sm$) phases with $ThCr_2Si_2$ -type structures. 2010 , 107, 09E316		7
1656	Superconductivity in a new iron pnictide oxide $(Fe_2As_2)(Sr_4(Mg, Ti)_2O_6)$. 2010 , 23, 045001		46
1655	Superconductivity in $SrFe_2As_2$ with Pt Doping. 2010 , 79, 095002		14
1654	Homologous series of iron pnictide oxide superconductors $(Fe_2As_2)[Ca_{n+1}(Sc, Ti)_nO_y]$ ($n=3, 4, 5$) with extremely thick blocking layers. 2010 , 97, 072506		71
1653	Non-stoichiometry and the magnetic structure of Sr_2CrO_3FeAs . 2010 , 89, 37006		24

1652	Distinct quasiparticle relaxation dynamics in an electron-doped superconductor, BaFe _{1.9} Ni _{0.1} As ₂ . 2010 , 12, 123003	9
1651	Superconductivity at 15.6 K in calcium-doped Tb _{1-x} Ca _x FeAsO: The structure requirement for achieving superconductivity in the hole-doped 1111 phase. 2010 , 89, 27002	8
1650	Comprehensive studies for the crystal structures and electronic properties of the superconducting system Fe(1 + δ)Se(1 - x)Te(x) with δ s approximately equal to 0.037 and x is approximately equal to 0.55. 2010 , 22, 505702	5
1649	Evidence for competing magnetic and superconducting phases in superconducting Eu _{1-x} Sr _x Fe _{2-y} Co _y As ₂ single crystals. 2010 , 22, 235701	16
1648	Magneto-optical visualization of vortices penetration into Ba(Fe _{1.8} Co _{0.2})As ₂ . 2010 , 107, 09E155	4
1647	Efficient charge carriers induced by extra outer-shell electrons in iron-pnictides: a comparison between Ni- and Co-doped CaFeAsF. 2010 , 12, 083050	5
1646	Pressure-driven phase transitions in TiOCl and the family (Ca, Sr, Ba)Fe ₂ As ₂ . 2010 , 22, 164208	4
1645	Temperature-dependent Raman study of a CeFeAsO(0.9)F(0.1) superconductor: crystal field excitations, phonons and their coupling. 2010 , 22, 255402	8
1644	Magnetic lattice dynamics of the oxygen-free FeAs pnictides: how sensitive are phonons to magnetic ordering?. 2010 , 22, 315701	23
1643	Charge dynamics of Co-doped BaFe ₂ As ₂ . 2010 , 12, 073036	71
1642	Superconductivity of FeSe _{0.5} Te _{0.5} Thin Films Grown by Pulsed Laser Deposition. 2010 , 49, 023101	45
1641	A comparative study on the thermoelectric effect of parent oxypnictides LaTAsO (T = Fe, Ni). 2010 , 22, 072201	7
1640	Review of Fe Chalcogenides as the Simplest Fe-Based Superconductor. 2010 , 79, 102001	295
1639	Magnetic and structural properties of Ca(Fe _{1-x} Co _x) ₂ P ₂ and Ca(Ni _{1-x} Co _x) ₂ P ₂ . 2010 , 81,	13
1638	Anion height dependence of T _c for the Fe-based superconductor. 2010 , 23, 054013	379
1637	Gutzwiller density functional studies of FeAs-based superconductors: structure optimization and evidence for a three-dimensional Fermi surface. <i>Physical Review Letters</i> , 2010 , 104, 047002	7.4 58
1636	Comparison of Ab initio Low-Energy Models for LaFePO, LaFeAsO, BaFe ₂ As ₂ , LiFeAs, FeSe, and FeTe: Electron Correlation and Covalency. 2010 , 79, 044705	252
1635	Itinerant nature of magnetism in iron pnictides: A first-principles study. 2010 , 81,	31

1634	Phase separation and suppression of the structural and magnetic transitions in superconducting doped iron tellurides, $\text{Fe}(1+x)\text{Te}(1-y)\text{S}(y)$. 2010 , 132, 13000-7		55
1633	Thermally activated energy and flux-flow Hall effect of $\text{Fe}_{1+y}(\text{Te}_{1+x}\text{S}_x)_z$. 2010 , 82,		43
1632	Unusual electronic structure and observation of dispersion kink in CeFeAsO parent compound of FeAs-based superconductors. <i>Physical Review Letters</i> , 2010 , 105, 027001	7.4	24
1631	Symmetry and disorder of the vitreous vortex lattice in overdoped $\text{BaFe}_{2-x}\text{Co}_x\text{As}_2$: Indication for strong single-vortex pinning. 2010 , 81,		43
1630	Superconductivity above 33 K in $(\text{Ca}_{1-x}\text{Na}_x)\text{FeAs}_2$. 2010 , 22, 222203		29
1629	Critical properties of a dense polycrystalline $(\text{Ba}, \text{K})\text{Fe}_2\text{As}_2$ superconductor prepared by a combined process of melting and deformation. 2010 , 23, 045009		10
1628	Enhancement of the critical temperature of the pnictide superconductor $\text{LaFeAsO}_{1-x}\text{F}_x$ studied via ^{75}As NMR under pressure. 2010 , 81,		33
1627	Orbital-dependent modifications of electronic structure across the magnetostructural transition in BaFe_2As_2 . <i>Physical Review Letters</i> , 2010 , 104, 057002	7.4	148
1626	Weak superconducting pairing and a single isotropic energy gap in stoichiometric LiFeAs . <i>Physical Review Letters</i> , 2010 , 104, 187001	7.4	71
1625	The itinerant state of carriers in pnictide NaCu_2P_2 : Role of distortion in CuP_4 tetrahedra. 2010 , 92, 57002		4
1624	Flux pinning in $\text{PrFeAsO}_{0.9}$ and $\text{NdFeAsO}_{0.9}\text{F}_{0.1}$ superconducting crystals. 2010 , 81,		93
1623	Formation of collapsed tetragonal phase in EuCoAs_2 under high pressure. 2010 , 22, 425701		26
1622	Isolated infinity $1[\text{ZnPn}_2]_4$ - chains in the Zintl phases Ba_2ZnPn_2 ($\text{Pn} = \text{As}, \text{Sb}, \text{Bi}$)--synthesis, structure, and bonding. 2010 , 49, 5173-9		51
1621	Unified picture for magnetic correlations in iron-based superconductors. <i>Physical Review Letters</i> , 2010 , 105, 107004	7.4	140
1620	Orbital order and spontaneous orthorhombicity in iron pnictides. 2010 , 82,		178
1619	Tuning the superconducting and magnetic properties of $\text{Fe}_y\text{Se}_{0.25}\text{Te}_{0.75}$ by varying the iron content. 2010 , 82,		88
1618	Doping-dependent specific heat study of the superconducting gap in $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. 2010 , 81,		56
1617	Gap structure in the electron-doped iron arsenide superconductor $\text{Ba}(\text{Fe}_{0.92}\text{Co}_{0.08})_2\text{As}_2$: low-temperature specific heat study. 2010 , 12, 023006		39

1616	Compositional control of the superconducting properties of LiFeAs. 2010 , 132, 10467-76	58
1615	General Theory of High-Tc Superconductors. 2010 , 1-47	0
1614	Self-energy effects and electron-phonon coupling in Fe-As superconductors. 2010 , 22, 115802	25
1613	Observation of Softened Fe Modes in K-Doped BaFe ₂ As ₂ via ⁵⁷ Fe Nuclear Resonant Inelastic Scattering. 2010 , 79, 013706	7
1612	Observation of Dirac cone electronic dispersion in BaFe ₂ As ₂ . <i>Physical Review Letters</i> , 2010 , 104, 137001	7.4 196
1611	Highly Two-dimensional Electronic Structure and Strong Fermi-Surface Nesting of the Iron-Based Superconductor Sr ₂ ScFePO ₃ : A First-Principles Study. 2010 , 79, 013705	7
1610	Uniaxial-strain mechanical detwinning of CaFe ₂ As ₂ and BaFe ₂ As ₂ crystals: Optical and transport study. 2010 , 81,	231
1609	Selective Substitution of Cr in CaFe ₄ As ₃ and Its Effect on the Spin Density Wave. 2010 , 22, 4996-5002	9
1608	Anomalous suppression of the orthorhombic lattice distortion in superconducting Ba(Fe _{1-x} Co _x) ₂ As ₂ single crystals. <i>Physical Review Letters</i> , 2010 , 104, 057006	7.4 337
1607	Tuning Ferro- and Metamagnetic Transitions in Rare-Earth Cobalt Phosphides La _{1-x} Pr _x Co ₂ P ₂ . 2010 , 22, 1704-1713	40
1606	Appearance of pressure-induced superconductivity in BaFe ₂ As ₂ under hydrostatic conditions and its extremely high sensitivity to uniaxial stress. 2010 , 81,	88
1605	Indifference of Superconductivity and Magnetism to Size-Mismatched Cations in the Layered Iron Arsenides Ba _{1-x} NaxFe ₂ As ₂ . 2010 , 22, 4304-4311	33
1604	Materials Chemistry of BaFe ₂ As ₂ : A Model Platform for Unconventional Superconductivity. 2010 , 22, 715-723	68
1603	A new pnictide superconductor without iron. 2010 , 132, 908-9	31
1602	Collapsed tetragonal phase and superconductivity of BaFe ₂ As ₂ under high pressure. 2010 , 82,	64
1601	Superconductivity at 23 K in Pt doped BaFe ₂ As ₂ single crystals. 2010 , 22, 072204	44
1600	Ternary rare-earth iron arsenides RE ₁₂ Fe _{57.5} As ₄₁ (RE = La, Ce). 2010 , 49, 2325-33	17
1599	First-principles study of the magnetic, structural and electronic properties of LiFeAs. 2010 , 22, 046006	9

1598	Spin-phonon coupling and effect of pressure in the superconductor LiFeAs: Lattice dynamics from first-principles calculations. 2010 , 82,		27
1597	High upper critical fields and evidence of weak-link behavior in superconducting LaFeAsO _{1-x} Fx thin films. <i>Physical Review Letters</i> , 2010 , 104, 077001	7.4	68
1596	Evolution of superconductivity by oxygen annealing in FeTe 0.8 S 0.2. 2010 , 90, 57002		55
1595	The puzzle of high temperature superconductivity in layered iron pnictides and chalcogenides. 2010 , 59, 803-1061		1404
1594	Epitaxial LaFeAsO _{1-x} Fx thin films grown by pulsed laser deposition. 2010 , 23, 022002		39
1593	Coherent interfacial bonding on the FeAs tetrahedron in Fe/Ba(Fe _{1-x} Cox) ₂ As ₂ bilayers. 2010 , 97, 022506		53
1592	FeAs-Based Superconductivity: A Case Study of the Effects of Transition Metal Doping on BaFe ₂ As ₂ . 2010 , 1, 27-50		322
1591	Three-band superconductivity and the order parameter that breaks time-reversal symmetry. 2010 , 81,		154
1590	Superconductivity in the iron selenide KxFe ₂ Se ₂ (0 ≤ x ≤ 1.0). 2010 , 82,		994
1589	Leggett mode in a strong-coupling model of iron arsenide superconductors. 2010 , 82,		20
1588	Synthesis and dislocations of 1111-type GdFePO superconductor. 2010 , 507, 93-96		4
1587	BaNiSn ₃ -type ternary germanides SrMGe ₃ (M=Ir; Pd and Pt). 2010 , 508, 338-341		6
1586	Effects of nematic fluctuations on the elastic properties of iron arsenide superconductors. <i>Physical Review Letters</i> , 2010 , 105, 157003	7.4	283
1585	Electronic Structure Calculation by First Principles for Strongly Correlated Electron Systems. 2010 , 79, 112001		93
1584	Hole and electron contributions to the transport properties of Ba(Fe _{1-x} Rux) ₂ As ₂ single crystals. 2010 , 81,		95
1583	Critical current and vortex dynamics in single crystals of Ca(Fe _{1-x} Cox) ₂ As ₂ . 2010 , 82,		31
1582	Surface structures of ternary iron arsenides AFe ₂ As ₂ (A=Ba, Sr, or Ca). 2010 , 81,		29
1581	Quantum criticality and nodal superconductivity in the FeAs-based superconductor KFe ₂ As ₂ . <i>Physical Review Letters</i> , 2010 , 104, 087005	7.4	205

1580	Significant reduction of electronic correlations upon isovalent Ru substitution of BaFe ₂ As ₂ . <i>Physical Review Letters</i> , 2010 , 105, 087001	7.4	54
1579	Single crystal growth and characterizations of iron arsenide superconductor BaFe _{2-x} Ni _x As ₂ (0.0 ≤ x ≤ 1.2). 2010 , 19, 026103		4
1578	Structural and physical properties of undoped and nickel-doped BaFe _{2-x} Ni _x As ₂ (x = 0, 0.04) single crystals. 2010 , 19, 086101		1
1577	Magnetism in Fe-based superconductors. 2010 , 22, 203203		264
1576	Doping-driven structural phase transition and loss of superconductivity in MxFe _{1-x} Se (M=Mn, Cu). 2010 , 82,		47
1575	Local antiferromagnetic correlations in the iron pnictide superconductors LaFeAsO _{1-x} F _x and Ca(Fe _{1-x} Cox) ₂ As ₂ as seen via normal-state susceptibility. 2010 , 81,		95
1574	Orbital character variation of the Fermi surface and doping dependent changes of the dimensionality in BaFe _{2-x} CoxAs ₂ from angle-resolved photoemission spectroscopy. 2010 , 81,		51
1573	Superconductivity in iron telluride thin films under tensile stress. <i>Physical Review Letters</i> , 2010 , 104, 017003		133
1572	Superconductivity in Ru-substituted polycrystalline BaFe _{2-x} RuxAs ₂ . 2010 , 81,		105
1571	Single-crystal growth and superconducting properties of LiFeAs. 2010 , 91, 67002		28
1570	Mössbauer studies of Ba(Fe _{1-x} Ni _x) ₂ As ₂ . 2010 , 22, 355701		19
1569	Structural properties and superconductivity of SrFe ₂ As _{2-x} P _x (0.0 ≤ x ≤ 1.0) and CaFe ₂ As _{2-y} P _y (0.0 ≤ y ≤ 0.3). 2010 , 22, 125702		29
1568	Local magnetic inhomogeneities in Ba(Fe _{1-x} Ni _x) ₂ As ₂ as seen via A75s NMR. 2010 , 82,		33
1567	Orbital ordering and unfrustrated (D) magnetism from degenerate double exchange in the iron pnictides. 2010 , 82,		168
1566	Single Crystal Growth and Characterization of Superconducting LiFeAs. 2010 , 10, 4428-4432		46
1565	Lattice and magnetism in superconducting compounds Ca _{1-x} K _x Fe ₂ As ₂ . 2010 , 19, 037401		2
1564	Structure and Physical Properties of the Layered Pnictide-Oxides: (SrF) ₂ Ti ₂ Pn ₂ O (Pn = As, Sb) and (SmO) ₂ Ti ₂ Sb ₂ O. 2010 , 22, 1503-1508		46
1563	Fabrication of superconducting oxypnictide thin films. 2010 , 90, 57005		18

1562	Shapiro steps as a direct probe of E_s -wave symmetry in multigap superconducting Josephson junctions. 2010 , 82,		20
1561	Precision microwave electrodynamic measurements of K- and Co-doped BaFe_2As_2 . 2010 , 82,		25
1560	Fluctuation conductivity of single-crystalline $\text{BaFe}_{1.8}\text{Co}_{0.2}\text{As}_2$ in the critical region. 2010 , 108, 063916		28
1559	Inelastic neutron scattering study of the resonance mode in the optimally doped pnictide superconductor $\text{LaFeAsO}_{0.92}\text{F}_{0.08}$. 2010 , 82,		44
1558	Quasiparticle scattering induced by charge doping of iron-pnictide superconductors probed by collective vortex pinning. <i>Physical Review Letters</i> , 2010 , 105, 267002	7-4	63
1557	High pressure study of BaFe_2As_2 --the role of hydrostaticity and uniaxial stress. 2010 , 22, 052201		62
1556	Electronic, magnetic and optical properties of two Fe-based superconductors and related parent compounds. 2010 , 23, 054005		13
1555	An overview on iron based superconductors. 2010 , 23, 073001		110
1554	Mössbauer studies of spin density wave-superconducting Fe-As systems. 2010 , 217, 012121		5
1553	Evolution of the Fermi surface of $\text{BaFe}_2(\text{As}_{1-x}\text{Px})_2$ on entering the superconducting dome. <i>Physical Review Letters</i> , 2010 , 104, 057008	7-4	179
1552	Incommensurate spin-density wave and magnetic lock-in transition in CaFe_4As_3 . 2010 , 81,		17
1551	Synthesis, crystal and electronic structures of the new quaternary phases $\text{A}_5\text{Cd}_2\text{Sb}_5\text{F}$ (A = Sr, Ba, Eu), and $\text{Ba}_5\text{Cd}_2\text{Sb}_5\text{O}(x)$ (0.5). 2010 , 39, 11335-43		14
1550	Intercalation and superconductivity in ternary layer structured metal nitride halides (MNX : M = Ti, Zr, Hf; X = Cl, Br, I). 2010 , 20, 2922		50
1549	Actinoid transition metal phosphides $\text{An}_2\text{T}_{12}\text{P}_7$ (An = Th, U; T = Fe, Co, Ni) and arsenides $\text{An}_2\text{T}_{12}\text{As}_7$ (An = Th, U; T = Co, Ni) with $\text{Zr}_2\text{Fe}_{12}\text{P}_7$ type structure. 2010 , 39, 6067-73		10
1548	Topotactic Redox Chemistry of NaFeAs in Water and Air and Superconducting Behavior with Stoichiometry Change. 2010 , 22, 3916-3925		26
1547	Field-dependent transport critical current in single crystals of $\text{Ba}(\text{Fe}_{1-x}\text{TM}_x)_2\text{As}_2$ (TM = Co, Ni) superconductors. 2010 , 23, 054002		44
1546	Symmetry of spin excitation spectra in the tetragonal paramagnetic and superconducting phases of 122-ferropnictides. 2010 , 82,		109
1545	Valence change of europium in $\text{EuFe}_2\text{As}_{1.4}\text{P}_{0.6}$ and compressed EuFe_2As_2 and its relation to superconductivity. 2010 , 82,		31

1544	Strong correlations and spin-density-wave phase induced by a massive spectral weight redistribution in $\text{H-Fe}_{1.06}\text{Te}$. 2010 , 82,	44
1543	Possible magnetic order and suppression of superconductivity by V doping in $\text{Sr}_2\text{VO}_3\text{FeAs}$. 2010 , 82,	21
1542	Superconductivity and magnetism in platinum-substituted SrFe_2As_2 single crystals. 2010 , 82,	19
1541	Heat capacity study of BaFe_2As_2 : Effects of annealing. 2010 , 82,	52
1540	Microscopic study of the superconducting state of the iron pnictide RbFe_2As_2 via muon spin rotation. 2010 , 82,	26
1539	La_2Sb , a layered superconductor with metal-metal bonds. 2011 , 47, 3778-80	9
1538	Raman evidence for the superconducting gap and spin-phonon coupling in the superconductor $\text{Ca}(\text{Fe}_{0.95}\text{Co}_{0.05})_2\text{As}_2$. 2011 , 23, 255403	8
1537	Dependence of Epitaxial $\text{Ba}_{1-x}\text{Co}_x\text{As}_2$ Thin Films Properties on SrTiO_3 Template Thickness. 2011 , 21, 2882-2886	7
1536	Development of Powder-in-Tube Processed Iron Pnictide Wires and Tapes. 2011 , 21, 2878-2881	43
1535	Synthesis of ThCr_2Si_2 -type arsenides from Bi flux. 2011 , 47, 5563-5	19
1534	Transport Properties of Iron-Based $\text{FeTe}_{0.5}\text{Se}_{0.5}$ Superconducting Wire. 2011 , 21, 2858-2861	23
1533	J_c Scaling and Anisotropies in Co-Doped Ba-122 Thin Films. 2011 , 21, 2887-2890	20
1532	Estimation of Critical Current Densities in Polycrystalline $\text{Sr}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$ Superconductors. 2011 , 21, 2862-2865	
1531	Superconductivity and magnetism in FeSe thin films grown by metal-organic chemical vapor deposition. 2011 , 24, 015010	17
1530	Emergence of superconductivity in "32522" structure of $(\text{Ca}_3\text{Al}_2\text{O}_{5-y})(\text{Fe}_2\text{Pn}_2)$ (Pn = As and P). 2011 , 133, 9630-3	34
1529	Nonequilibrium quasiparticle relaxation dynamics in single crystals of hole- and electron-doped BaFe_2As_2 . 2011 , 84,	23
1528	Eight-coordinated arsenic in the Zintl phases RbCd_4As_3 and RbZn_4As_3 : synthesis and structural characterization. 2011 , 50, 8375-83	31
1527	Growth and transport studies of BaMn_2As_2 thin films. 2011 , 29, 031210	2

1526	Pressure and chemical substitution effects in the local atomic structure of BaFe ₂ As ₂ . 2011 , 83,	33
1525	Pressure-induced isostructural phase transition and correlation of FeAs coordination with the superconducting properties of 111-type Na(1-x)FeAs. 2011 , 133, 7892-6	51
1524	Phase transition and superconductivity of SrFe(2)As(2) under high pressure. 2011 , 23, 122201	37
1523	Absence of superconductivity in LiCu ₂ P ₂ . 2011 , 133, 1751-3	8
1522	MgF ₂ Doping of SmFeAsO Superconductors Prepared by Mechanical Alloying and Rapid Annealing. 2011 , 23, 3039-3044	5
1521	Structure of vacancy-ordered single-crystalline superconducting potassium iron selenide. 2011 , 83,	125
1520	Microstructure and ordering of iron vacancies in the superconductor system KyFexSe ₂ as seen via transmission electron microscopy. 2011 , 83,	214
1519	Anisotropic magnetism, superconductivity, and the phase diagram of Rb _{1-x} Fe _{2-y} Se ₂ . 2011 , 84,	53
1518	Systematic growth of BaFe _{2-x} NixAs ₂ large crystals. 2011 , 24, 065004	48
1517	Block spin ground state and three-dimensionality of (K,Tl)(y)Fe(1.6)Se ₂ . <i>Physical Review Letters</i> , 2011 , 107, 056401	7.4 65
1516	Suppression of superconductivity in Fe chalcogenides by annealing: A reverse effect to pressure. 2011 , 84,	8
1515	Improvement of superconducting properties of FeSe _{0.5} Te _{0.5} single crystals by Mn substitution. 2011 , 24, 045009	33
1514	Phase separation and superconductivity in Fe(1+x)Te(0.5)Se(0.5). 2011 , 47, 11297-9	21
1513	Theory of high-T _c superconductivity: transition temperature. 2011 , 23, 295701	18
1512	Physical properties of SrSn(4) single crystals. 2011 , 23, 455703	3
1511	Precision global measurements of London penetration depth in FeTe _{0.58} Se _{0.42} . 2011 , 84,	16
1510	History and Introduction. 2011 , 4, 1-14	1
1509	Recent Developments (After 2000). 2011 , 4, 217-234	

1508	Direct observation of the influence of the As-Fe-As angle on the T _c of superconducting SmFeAsO _{1-x} F _x . 2011 , 84,		26
1507	Anisotropic phase diagram and superconducting fluctuations of single-crystalline SmFeAsO _{0.85} F _{0.15} . 2011 , 83,		42
1506	Room temperature antiferromagnetic order in superconducting X(y)Fe(2-x)Se (X = Rb, K): a neutron powder diffraction study. 2011 , 23, 156003		36
1505	Electronic structure of optimally doped pnictide Ba _{0.6} K _{0.4} Fe ₂ As ₂ : a comprehensive angle-resolved photoemission spectroscopy investigation. 2011 , 23, 135701		76
1504	Structure-property relationships of iron arsenide superconductors. 2011 , 21, 13726		74
1503	Magnetic field effect on static antiferromagnetic order and spin excitations in the underdoped iron arsenide superconductor BaFe _{1.92} Ni _{0.08} As ₂ . 2011 , 83,		28
1502	Electronic structures and magnetic order of ordered-Fe-vacancy ternary iron selenides TlFe _{1.5} Se ₂ and AFe _{1.5} Se ₂ (A=K, Rb, or Cs). <i>Physical Review Letters</i> , 2011 , 106, 087005	7-4	82
1501	Analysis of local chemical and structural inhomogeneities in Fe _y Se _{1-x} Te _x single crystals. 2011 , 99, 192504		14
1500	Coexistence of antiferromagnetic ordering and superconductivity in the Ba(Fe _{0.961} Rh _{0.039}) ₂ As ₂ compound studied by Mössbauer spectroscopy. 2011 , 84,		16
1499	Magnetic exchange interactions in BaMn ₂ As ₂ : A case study of the J ₁ -J ₂ -J _c Heisenberg model. 2011 , 84,		108
1498	Cyclotron resonance and mass enhancement by electron correlation in KFe ₂ As ₂ . <i>Physical Review Letters</i> , 2011 , 107, 166402	7-4	10
1497	Superconductivity and anomalous transport in SrPd ₂ Ge ₂ single crystals. 2011 , 83,		21
1496	Large Transport Critical Current Densities of Ag Sheathed (Ba,K)Fe ₂ As ₂ +Ag Superconducting Wires Fabricated by an Ex-situ Powder-in-Tube Process. 2011 , 4, 043101		102
1495	Ternary and higher pnictides; prospects for new materials and applications. 2011 , 40, 4099-118		42
1494	Vanadium fluoroarsenates--folding sheets into highly corrugated layers and crystalline arrays of large inorganic tubes. 2011 , 47, 6132-4		3
1493	Structural chemistry of superconducting pnictides and pnictide oxides with layered structures. 2011 , 226,		78
1492	A New High-Temperature Superconductor: LaFeAsO _{1-x} F _x and Related Materials. 2011 , 1-7		
1491	Analysis of Fe _y Se _{1-x} Te _x thin films grown by radio frequency sputtering. 2011 , 24, 075023		17

1490	Resistivity and Hall effect of LiFeAs: Evidence for electron-electron scattering. 2011 , 84,	33
1489	Hydrogen in layered iron arsenides: Indirect electron doping to induce superconductivity. 2011 , 84,	96
1488	Pressure and K doping induced superconductivity in BaFe ₂ As ₂ . 2011 , 273, 012096	1
1487	Interplay between magnetism and superconductivity in iron-chalcogenide superconductors: crystal growth and characterizations. 2011 , 74, 124503	86
1486	Spin-glass behavior in LaFe _(x) Co _(2-x) P ₂ solid solutions: interplay between magnetic properties and crystal and electronic structures. 2011 , 50, 10274-83	24
1485	Ternary rare-earth arsenides REZn ₃ As ₃ (RE = La-Nd, Sm) and RECd ₃ As ₃ (RE = La-Pr). 2011 , 50, 11152-61	22
1484	Common Fermi-surface topology and nodeless superconducting gap of K _{0.68} Fe _{1.79} Se ₂ and (Tl _{0.45} K _{0.34})Fe _{1.84} Se ₂ superconductors revealed via angle-resolved photoemission. 2011 , 83,	70
1483	Synthesis and crystal growth of Cs _(0.8) (FeSe _(0.98)) ₍₂₎ : a new iron-based superconductor with T _(c) = 27K. 2011 , 23, 052203	236
1482	Fe-based superconductivity with T _c = 31 K bordering an antiferromagnetic insulator in (Tl,K) Fe _x Se ₂ . 2011 , 94, 27009	352
1481	Chemistry and high temperature superconductivity. 2011 , 21, 4756	17
1480	Materials and Novel Superconductivity in Iron Pnictide Superconductors. 2011 , 2, 121-140	141
1479	Magnetoelastic effects in iron telluride. 2011 , 83,	22
1478	Anomalous optical phonons in FeTe chalcogenides: Spin state, magnetic order, and lattice anharmonicity. 2011 , 83,	41
1477	Orbital-independent superconducting gaps in iron pnictides. 2011 , 332, 564-7	122
1476	Alcoholic beverages induce superconductivity in FeTe _{1-x} S _x . 2011 , 24, 055008	42
1475	Transport properties and microstructure of mono- and seven-core wires of FeSe _{1-x} S _x superconductor produced by the Fe-diffusion powder-in-tube method. 2011 , 24, 105002	48
1474	Superconductivity at 32 K and anisotropy in Tl _{0.58} Rb _{0.42} Fe _{1.72} Se ₂ crystals. 2011 , 93, 47004	123
1473	Superconductivity at 14.6 K in Fe(SeTe) single crystal and the role of excess Fe. 2011 , 110, 033914	17

1472	In-plane anisotropy of electrical resistivity in strain-detwinned SrFe ₂ As ₂ . 2011 , 83,	49
1471	Superconductivity at 32 K in single-crystalline Rb _x Fe ₂ As ₂ . 2011 , 83,	272
1470	Common crystalline and magnetic structure of superconducting A ₂ Fe ₄ Se ₅ (A=K,Rb,Cs,Tl) single crystals measured using neutron diffraction. <i>Physical Review Letters</i> , 2011 , 107, 137003	7.4 191
1469	Electronic and magnetic structures of the ternary iron selenides AFe ₂ Se ₂ (A=Cs, Rb, K, or Tl). 2011 , 84,	51
1468	Phase separation in superconducting and antiferromagnetic Rb _{0.8} Fe _{1.6} Se ₂ probed by Mössbauer spectroscopy. 2011 , 84,	96
1467	Spectroscopic scanning tunneling microscopy insights into Fe-based superconductors. 2011 , 74, 124513	148
1466	Superconductivity in copper-oxygen compounds. 2011 , 226,	6
1465	As-NMR/NQR Study of CaFe ₂ As ₂ under Pressure. 2011 , 80, SA116	
1464	Effect of Substitution of Ca ²⁺ for Eu ²⁺ on Pressure-Induced Superconductivity in EuFe ₂ As ₂ . 2011 , 80, SA117	4
1463	Local structural studies of Ba(1-x)K(x)Fe ₂ As ₂ using atomic pair distribution function analysis. 2011 , 23, 112202	5
1462	Quasiclassical Eilenberger approach to the vortex state in pnictide superconductors. 2011 , 303, 012113	1
1461	Magnetization distribution in the tetragonal Ba(Fe _{1-x} Co _x) ₂ As ₂ , x=0.066 probed by polarized neutron diffraction. 2011 , 93, 32001	2
1460	Superconductivity in Sr(Pd _{1-x} Ni _x) ₂ Ge ₂ . 2011 , 273, 012089	11
1459	Relation between superconductivity and tetragonal phase stabilized by uniaxial pressure in CaFe ₂ As ₂ . 2011 , 273, 012102	
1458	Uniform chemical pressure effect in solid solutions Ba _{1-x} Sr _x Fe ₂ As ₂ and Sr _{1-x} Ca _x Fe ₂ As ₂ . 2011 , 273, 012104	8
1457	Competing orders in underdoped (Ba _{1-x} K _x)Fe ₂ As ₂ . 2011 , 273, 012107	2
1456	Superconducting State in the Ternary Germanide Y ₂ AlGe ₃ with Related ThCr ₂ Si ₂ -Type Structure. 2011 , 80, 014716	3
1455	Superconductivity at 38 K in Iron-Based Compound with Platinum-Arsenide Layers Ca ₁₀ (Pt ₄ As ₈)(Fe _{2-x} Pt _x As ₂) ₅ . 2011 , 80, 093704	103

1454	Magnetization hysteresis and time decay measurements in FeSe _{0.50} Te _{0.50} : Evidence for fluctuation in mean free path induced pinning. 2011 , 84,	32
1453	Determination of the Upper Critical Field of a Single Crystal LiFeAs: The Magnetic Torque Study up to 35 Tesla. 2011 , 80, 013706	45
1452	Ferromagnetic quantum critical point induced by dimer-breaking in SrCo ₂ (Ge _{1-x} Px) ₂ . 2011 , 7, 207-210	60
1451	Observation of a ubiquitous three-dimensional superconducting gap function in optimally doped Ba _{0.6} K _{0.4} Fe ₂ As ₂ . 2011 , 7, 198-202	87
1450	Structural, electronic, and magnetic properties of layered cobalt pnictide oxides (Co ₂ As ₂)(Sr ₄ Sc ₂ O ₆) and (Co ₂ P ₂)(Sr ₄ Sc ₂ O ₆) from first principles. 2011 , 13, 837-842	1
1449	RE ₈ Rh ₁₇ Sb ₁₄ (RE = La, Ce, Pr, Nd) with a CaBe ₂ Ge ₂ -related superstructure through rhodium-antimony-ordering and vacancy formation. 2011 , 13, 1740-1747	6
1448	Electrodeposition of nano-dimensioned FeSe. 2011 , 519, 8397-8400	20
1447	Superconductivity of the platinum doped 122 iron arsenide SrFe _{2-x} PtxAs ₂ . 2011 , 471, 600-602	1
1446	Scanning tunneling microscopy on iron-chalcogenide superconductor Fe(Se,Te) single crystal. 2011 , 471, 622-624	7
1445	Microwave surface impedance measurements of LiFeAs, LiFe(As,P) and FeSe _{1-x} Tex single crystals. 2011 , 471, 630-633	2
1444	Terahertz conductivity measurement of FeSe _{0.5} Te _{0.5} and Co-doped BaFe ₂ As ₂ thin films. 2011 , 471, 634-638	8
1443	Magneto-optical imaging of polycrystalline FeTe _{1-x} Sex prepared at various conditions. 2011 , 471, 651-655	5
1442	Electronic structure of LaFe ₂ X ₂ (X = Si,Ge). 2011 , 471, 656-658	8
1441	Ginzburg-Landau theory of multi-band superconductivity and applications to Fe pnictides. 2011 , 471, 675-678	3
1440	Synthesis and superconductivity of MgB ₂ /Fe _{1-x} Be _x Te composites. 2011 , 471, 721-724	
1439	Critical current density and vortex dynamics in uranium irradiated Co-doped BaFe ₂ As ₂ . 2011 , 471, 790-793	15
1438	MBE growth of Fe-based superconducting films. 2011 , 471, 1167-1173	23
1437	A study of the doping dependence of T _c in Ba _{1-x} K _x Fe ₂ As ₂ and Sr _{1-x} K _x Fe ₂ As ₂ films grown by molecular beam epitaxy. 2011 , 471, 1177-1180	14

1436	Epitaxial films of $\text{FeTe}_{1-x}\text{S}_x$ fabricated by second harmonic Nd:YAG pulsed laser deposition. 2011 , 471, 1185-1188	10
1435	The role of correlations in the high-pressure phase of FeSe. 2011 , 23, 205601	5
1434	Superconductivity in PbO-type Fe chalcogenides. 2011 , 226,	15
1433	Iron-vacancy superstructure and possible room-temperature antiferromagnetic order in superconducting CsyFe_2S_2 . 2011 , 83,	86
1432	Physical properties of $\text{FeSe}_{0.5}\text{Te}_{0.5}$ single crystals grown under different conditions. 2011 , 79, 289-299	71
1431	Physical properties, crystal and magnetic structure of layered $\text{Fe}_{1.11}\text{Te}_{1-x}\text{Se}_x$ superconductors. 2011 , 82, 113-121	6
1430	Revised phase diagram for the $\text{FeTe}_{1-x}\text{S}_x$ system with fewer excess Fe atoms. 2011 , 84,	70
1429	Superconductivity in iron compounds. 2011 , 83, 1589-1652	1137
1428	Pressure effects on two superconducting iron-based families. 2011 , 74, 124502	92
1427	Competing energy scales in high-temperature superconductors: Ultrafast pump-probe studies. 2011 , 5, 1-9	6
1426	Magnetic and Mössbauer Studies of $\text{Ba}(\text{Fe}_{1-x}\text{Ni}_x)_2\text{As}_2$ Single Crystals. 2011 , 24, 1363-1369	3
1425	Observation of Multiple Gap Structures Using $\text{NdFeAsO}_{1-x}\text{F}_x$ GaAs Tunneling Junction. 2011 , 24, 1491-1495	10
1424	A Comparative Study of $\text{Fe}_{1+x}\text{Te}_{1-x}\text{Se}_x$ Single Crystals Grown by Bridgman and Self-flux Techniques. 2011 , 24, 183-187	18
1423	Electronic Structure of $\text{BaFe}_2\text{Co}_x\text{As}_2$ Revealed by Angle-Resolved Photoemission Spectroscopy. 2011 , 24, 1133-1136	3
1422	Single Crystal Growth and Effect of Doping on Structural, Transport and Magnetic Properties of $\text{A}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ (A = Ba, Sr). 2011 , 24, 1773-1785	20
1421	Scaling of the Temperature Dependent Resistivity and Hall Effect in $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)\text{As}_2$. 2011 , 24, 2285-2292	5
1420	EuGa_2Sb_2 : a new Zintl phase with four-bonded gallium and three-bonded antimony in a complex three-dimensional $[\text{Ga}_2\text{Sb}_2]$ polyanion. 2011 , 142, 875-880	13
1419	Pulsed laser deposition conditions and superconductivity of FeSe thin films. 2011 , 104, 311-318	25

1418	Upper critical field of the 122-type iron pnictide superconductors. 2011 , 72, 423-425	6
1417	The orbital characters and k_z dispersions of bands in iron-pnictide NaFeAs. 2011 , 72, 479-482	10
1416	Variation of physical properties in the nominal Sr ₄ V ₂ O ₆ Fe ₂ As ₂ . 2011 , 471, 143-149	16
1415	Structural, magnetic and electronic properties of the iron-chalcogenide A _x Fe ₂ As ₂ Se ₂ (A=K, Cs, Rb, and Tl, etc.) superconductors. 2011 , 6, 410-428	33
1414	Universal behavior of the upper critical field in iron-based superconductors. 2011 , 6, 463-473	36
1413	Magnetic excitation and thermodynamics of BaFe ₂ As ₂ . 2011 , 111, 3565-3570	5
1412	Charge transfer effects on the Fermi surface of Ba _{0.5} K _{0.5} Fe ₂ As ₂ . 2011 , 523, 259-264	
1411	On the multi-orbital band structure and itinerant magnetism of iron-based superconductors. 2011 , 523, 8-50	111
1410	A theoretical approach to iron-based superconductors. 2011 , 523, 580-581	
1409	Iron-Based Superconductors with Extended FeX ₄ (X = As and Se) Tetrahedra. 2011 , 2011, 3868-3876	6
1408	Supraleitung bis zu 35 K in den Eisen-Platinarseniden (CaFe _{1-x} Pt _x As) ₁₀ Pt _{4-y} As ₈ mit schichtartigem Aufbau. 2011 , 123, 9362-9366	1
1407	Recovery of a parentlike state in Ba(1-x)K(x)Fe(1.86)Co(0.14)As ₂ . 2011 , 50, 7919-23	17
1406	Superconductivity up to 35 K in the iron platinum arsenides (CaFe(1-x)Pt(x)As) ₁₀ Pt(4-y)As ₈ with layered structures. 2011 , 50, 9195-9	83
1405	NMR studies on iron-pnictide superconductors: and. 2011 , 12, 515-531	2
1404	Electronic band structure and Fermi surface of new low-temperature Ni-based superconductors: 3.3K (Ni ₂ P ₂)(Sr ₄ Sc ₂ O ₆) and 2.7K (Ni ₂ As ₂)(Sr ₄ Sc ₂ O ₆) from first principles. 2011 , 406, 676-682	3
1403	Stability, structural, elastic, and electronic properties of polymorphs of the superconducting disilicide Yr ₂ Si ₂ . 2011 , 406, 3525-3530	14
1402	Iron based oxypnictides: Structure and properties. 2011 , 372, 2-7	2
1401	Parabolic versus elliptic focusing – Optimization of the focusing design of a cold triple-axis neutron spectrometer by Monte-Carlo simulations. 2011 , 647, 63-72	13

1400	As-NMR/NQR study of pressure-induced superconductivity in CaFe ₂ As ₂ . 2011 , 72, 501-504	3
1399	Novel superconducting phases in copper oxides and iron-oxypnictides: NMR studies. 2011 , 72, 486-491	7
1398	Multiple superconducting gap and anisotropic spin fluctuations in iron arsenides: Comparison with nickel analog. 2011 , 72, 492-496	1
1397	Structural and physical properties of SrMn ₂ As ₂ . 2011 , 72, 457-459	9
1396	Doping effect on the carrier scattering in iron-pnictide superconductors studied by charge transport. 2011 , 72, 407-409	1
1395	Pnictogen-bridged antiferromagnetic superexchange interactions in iron pnictides. 2011 , 72, 319-323	5
1394	Syntheses, and crystal and electronic structures of the new Zintl phases Na ₂ ACdSb ₂ and K ₂ ACdSb ₂ (A=Ca, Sr, Ba, Eu, Yb): Structural relationship with Yb ₂ CdSb ₂ and the solid solutions Sr _{2-2x} A _x CdSb ₂ , Ba _{2-2x} A _x CdSb ₂ and Eu _{2-2x} Y _b xCdSb ₂ . 2011 , 184, 432-440	33
1393	Synthesis and electronic properties of LnRhAsO and LnIrAsO compositions. 2011 , 184, 1972-1976	5
1392	Enhanced superconductivity by correlations between two Kondo impurities. 2011 , 406, 1738-1743	1
1391	Single crystal growth and physical properties of superconducting ferro-pnictides Ba(Fe, Co) ₂ As ₂ grown using self-flux and Bridgman techniques. 2011 , 314, 341-348	23
1390	Investigation of thermal behavior and crystal growth of iron pnictides using Sn flux. 2011 , 316, 85-89	1
1389	Superconductivity and thermal properties of sulphur doped FeTe with effect of oxygen post annealing. 2011 , 471, 77-82	32
1388	Electronic band structure and Fermi surface of new 3.7 K superconductor LiCu ₂ P ₂ from first-principles calculations. 2011 , 471, 226-228	5
1387	Scaling of the temperature-dependent resistivity in SrFe _{2-2x} Ni _x As ₂ . 2011 , 471, 237-241	7
1386	New ternary ThCr ₂ Si ₂ -type iron-belenide superconducting materials: Synthesis, properties and simulations. 2011 , 471, 409-427	49
1385	Structural, electronic properties and inter-atomic bonding in layered iron-pnictide oxides (Fe ₂ As ₂)(Sr ₄ O ₆), where M are Mg and Ti. 2011 , 375, 2075-2078	2
1384	The flux pinning force and vortex phase diagram of single crystal. 2011 , 151, 216-218	34
1383	Effects of spin structures on Fermi surface topologies in BaFe ₂ As ₂ . 2011 , 151, 272-275	3

- 1382 The stable structures of iron pnictides $A\text{FeAs}$ ($A = \text{alkali and alkaline-earth metals}$): A first principles study. **2011**, 151, 446-450 6
- 1381 Enhanced superconducting properties in. **2011**, 151, 557-560 16
- 1380 The magnetism for NN AFM ground state in Fe-based superconductor: $\text{Sr}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$. **2011**, 151, 667-670 2
- 1379 Magnetization and characteristic fields in $\text{Nd}_{0.8}\text{Ba}_{0.2}\text{FeAsO}_{0.6}\text{F}_{0.4}$ with binary doping. **2011**, 151, 956-959 1
- 1378 First-order phase transitions in CaFeAs single crystal: a local probe study. **2011**, 23, 145701 17
- 1377 Superconductivity at 22 K in Ir-doped $\text{CaFe}_{2-x}\text{Ir}_x\text{As}_2$ single crystals. **2011**, 96, 47005 11
- 1376 Anisotropic charge dynamics in detwinned $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. **2011**, 93, 37002 113
- 1375 Pressure effect on superconductivity of $\text{A}_x\text{Fe}_2\text{Se}_2$ ($A = \text{K and Cs}$). **2011**, 13, 033008 28
- 1374 Proximity fingerprint of s - d -superconductivity. **2011**, 96, 27014 13
- 1373 Spin glassiness and power law scaling in anisotropic triangular spin-1/2 antiferromagnets. **2011**, 93, 67001 3
- 1372 Synthesis and properties of La-doped CaFe_2As_2 single crystals with $T_c = 42.7$ K. **2011**, 95, 67002 34
- 1371 ^{57}Fe and ^{151}Eu Mössbauer spectroscopy and magnetization studies of $\text{Eu}(\text{Fe}_{0.89}\text{Co}_{0.11})_2\text{As}_2$ and $\text{Eu}(\text{Fe}_{0.9}\text{Ni}_{0.1})_2\text{As}_2$. **2011**, 13, 023033 22
- 1370 The electronic structure of LaCo_2B_2 . **2011**, 95, 17001 2
- 1369 Orbital-transverse density-wave instabilities in iron-based superconductors. **2011**, 93, 37009 3
- 1368 Enhancement of the upper critical field in codoped iron-arsenic high-temperature superconductors. **2011**, 110, 123906 5
- 1367 Magnetic order in orbital models of the iron pnictides. **2011**, 23, 246001 21
- 1366 Anisotropic intrinsic spin Hall effect in quantum wires. **2011**, 23, 465301 1
- 1365 Electronic correlations in iron-pnictide superconductors and beyond: lessons learned from optics. **2011**, 13, 023011 25

1364	(75)As NMR study of antiferromagnetic fluctuations in Ba(Fe(1-x)Ru(x)) ₂ As ₂ . 2011 , 23, 475701		2
1363	Pressure Dependence of Superconducting Transition Temperature on Perovskite-Type Fe-Based Superconductors and NMR Study of Sr ₂ VFeAsO ₃ . 2011 , 80, 014712		8
1362	The synthesis, and crystal and magnetic structure of the iron selenide BaFe ₂ Se ₃ with possible superconductivity at T _c = 11 K. 2011 , 23, 402201		37
1361	Neutron scattering studies of spin excitations in hole-doped Ba(0.67)K(0.33)Fe(2)As(2) superconductor. 2011 , 1, 115		65
1360	Superconductivity induced by doping Rh in CaFe ₂ As ₂ . 2011 , 13, 033020		9
1359	Anisotropy in transport and magnetic properties of K _{0.64} Fe _{1.44} Se ₂ . 2011 , 83,		39
1358	Se ⁷⁷ NMR investigation of the K _x Fe ₂ As ₂ high-T _c superconductor (T _c =33 K). 2011 , 83,		71
1357	Magnetic ordering and structural distortion in Ru-doped BaFe ₂ As ₂ single crystals studied by neutron and x-ray diffraction. 2011 , 83,		59
1356	Effects of chemical doping and pressure on CaFe ₄ As ₃ . 2011 , 84,		4
1355	Measurement of a sign-changing two-gap superconducting phase in electron-doped Ba(Fe(1-x)Co(x)) ₂ As ₂ single crystals using scanning tunneling spectroscopy. <i>Physical Review Letters</i> , 2011 , 106, 087004	7-4	50
1354	Magnetic and quasiparticle excitation spectra of an itinerant J ₁ -J ₂ model for iron-pnictide superconductors. <i>Physical Review Letters</i> , 2011 , 106, 117002	7-4	6
1353	Ternary iron selenide K _{0.8} Fe _{1.6} Se ₂ is an antiferromagnetic semiconductor. 2011 , 83,		81
1352	Synthesis, structure, and magnetic properties of the layered iron oxychalcogenide Na ₂ Fe ₂ Se ₂ O. 2011 , 84,		27
1351	Spin-glass behavior of semiconducting K _x Fe ₂ As ₂ . 2011 , 83,		46
1350	Evidence of multiple nodeless energy gaps in superconducting Ba _{0.6} K _{0.4} Fe ₂ As ₂ single crystals from scanning tunneling spectroscopy. 2011 , 83,		23
1349	Spin fluctuations and unconventional pairing in KFe ₂ As ₂ . 2011 , 84,		50
1348	Infrared spectrum and its implications for the electronic structure of the semiconducting iron selenide K _{0.83} Fe _{1.53} Se ₂ . 2011 , 83,		43
1347	Pressure-induced changes in the magnetic and valence state of EuFe ₂ As ₂ . 2011 , 84,		56

1346	Different effects of Ni and Co substitution on the transport properties of BaFe ₂ As ₂ . 2011 , 83,	24
1345	Combined effects of pressure and Ru substitution on BaFe ₂ As ₂ . 2011 , 84,	44
1344	Possible origin of the nonmonotonic doping dependence of the in-plane resistivity anisotropy of Ba(Fe _{1-x} T _x) ₂ As ₂ (T=Co, Ni and Cu). 2011 , 84,	86
1343	London penetration depth in iron-based superconductors. 2011 , 74, 124505	127
1342	Electronic band structure of SrCu ₄ As ₂ and KCu ₄ As ₂ : Metals with diversely doped CuAs layers. 2011 , 84,	2
1341	Critical current densities in ultrathin Ba(Fe,Co) ₂ As ₂ microbridges. 2011 , 83,	25
1340	Fe ⁵⁷ Mössbauer study of magnetic ordering in superconducting K _{0.80} Fe _{1.76} Se _{2.00} single crystals. 2011 , 83,	76
1339	Coexistence of light and heavy carriers associated with superconductivity and antiferromagnetism in CeNi _{0.8} Bi ₂ with a Bi square net. <i>Physical Review Letters</i> , 2011 , 106, 057002	7-4 44
1338	Quasiclassical description of a superconductor with a spin density wave. 2011 , 83,	15
1337	Pressure- and temperature-induced structural phase transitions of CaFe ₂ As ₂ and BaFe ₂ As ₂ studied in the Hund's rule correlation picture. 2011 , 83,	18
1336	Macroscopic quantum tunneling in multigap superconducting Josephson junctions: Enhancement of escape rate via quantum fluctuations of the Josephson-Leggett mode. 2011 , 83,	13
1335	Nematic phase without Heisenberg physics in FeAs planes. 2011 , 84,	16
1334	Transport properties and anisotropy of Rb _{1-x} Fe _{2-y} Se ₂ single crystals. 2011 , 83,	94
1333	Electronic structure of detwinned BaFe ₂ As ₂ from photoemission and first principles. 2011 , 83,	50
1332	Interplay of antiferromagnetism, ferromagnetism, and superconductivity in EuFe ₂ (As _{1-x} P _x) ₂ single crystals. 2011 , 83,	103
1331	Andreev reflection spectroscopy of the new Fe-based superconductor EuAsFe _{0.85} F _{0.15} : Evidence of strong anisotropy in the order parameter. 2011 , 37, 280-286	4
1330	Effects of nonhydrostatic pressure on the structural and magnetic properties of BaFe ₂ As ₂ . 2011 , 83,	16
1329	Suppressed superconductivity in charge-doped Li(Fe _{1-x} Co _x)As single crystals. 2011 , 84,	13

1328	Physical and magnetic properties of Ba(Fe _{1-x} Mnx) ₂ As ₂ single crystals. 2011, 84,		45
1327	Anisotropic magnetic order of the Eu sublattice in single crystals of EuFe _{2-x} CoxAs ₂ (x=0,0.2) studied by means of magnetization and magnetic torque. 2011, 84,		23
1326	Eliashberg approach to infrared anomalies induced by the superconducting state of Ba _{0.68} K _{0.32} Fe ₂ As ₂ single crystals. 2011, 84,		60
1325	Effect of Co substitution on the magnetic order in Ca(Fe _{1-x} Cox) ₂ As ₂ single crystals studied by neutron diffraction. 2011, 83,		11
1324	Thermoelectric studies of KxFe _{2-x} Se ₂ indicating a weakly correlated superconductor. 2011, 83,		22
1323	Anisotropy in BaFe ₂ Se ₃ single crystals with double chains of FeSe tetrahedra. 2011, 84,		64
1322	Variable temperature study of the crystal and magnetic structures of the giant magnetoresistant materials LMnAsO (L = La, Nd). 2011, 83,		52
1321	Phonon softening near the structural transition in BaFe ₂ As ₂ observed by inelastic x-ray scattering. 2011, 84,		34
1320	Mixed-state Hall effect and flux pinning in Ba(Fe _{1-x} Cox) ₂ As ₂ single crystals (x=0.08 and 0.10). 2011, 83,		18
1319	Pressure-restored superconductivity in Cu-substituted FeSe. 2011, 84,		14
1318	Anisotropic upper critical field and possible Fulde-Ferrel-Larkin-Ovchinnikov state in the stoichiometric pnictide superconductor LiFeAs. 2011, 83,		102
1317	Crystal and magnetic structures of the superconductor CeNi _{0.8} Bi ₂ . 2011, 83,		18
1316	Co-substitution effects on the Fe valence in the BaFe ₂ As ₂ superconducting compound: a study of hard x-ray absorption spectroscopy. <i>Physical Review Letters</i> , 2011, 107, 267402	7-4	47
1315	Antiferromagnetism in semiconducting KFe _{0.85} Ag _{1.15} Te ₂ single crystals. 2011, 84,		19
1314	Static magnetic order of Sr ₄ A ₂ O ₆ Fe ₂ As ₂ (A = Sc and V) revealed by Mössbauer and muon spin relaxation spectroscopies. 2011, 84,		16
1313	Microscopically derived Ginzburg-Landau theory for magnetic order in the iron pnictides. 2011, 84,		43
1312	Magnetoelastic coupling in the phase diagram of Ba _{1-x} KxFe ₂ As ₂ as seen via neutron diffraction. 2011, 83,		74
1311	Symmetry-preserving lattice collapse in tetragonal SrFe _{2-x} RuxAs ₂ (x=0,0.2): A combined experimental and theoretical study. 2011, 84,		24

1310	Exotic d-wave superconducting state of strongly hole-doped $K(x)Ba(1-x)Fe_2As_2$. <i>Physical Review Letters</i> , 2011 , 107, 117001	7.4	132
1309	What controls the phase diagram and superconductivity in Ru-substituted $BaFe_2As_2$?. <i>Physical Review Letters</i> , 2011 , 107, 267002	7.4	59
1308	LaCo ₂ B ₂ : a Co-based layered superconductor with a ThCr ₂ Si ₂ -type structure. <i>Physical Review Letters</i> , 2011 , 106, 237001	7.4	29
1307	Layered transition-metal pnictide SrMnBi ₂ with metallic blocking layer. 2011 , 84,		59
1306	Effect of annealing on the specific heat of $Ba(Fe_{1-x}Co_x)_2As_2$. 2011 , 83,		50
1305	Charge compensation effect in $Pr_{1-x}Sr_xFe_{1-x}Co_xAsO$ codoped with Sr and Co. 2011 , 83,		9
1304	Noncollinear spin-density-wave antiferromagnetism in FeAs. 2011 , 83,		47
1303	Theoretical investigation of optical conductivity in $Ba(Fe_{1-x}Co_x)_2As_2$. 2011 , 83,		18
1302	The electron-pairing mechanism of iron-based superconductors. 2011 , 332, 200-4		195
1301	Iron displacements and magnetoelastic coupling in the antiferromagnetic spin-ladder compound $BaFe_2Se_3$. 2011 , 84,		101
1300	Electronic band structure, Fermi surface, and elastic properties of polymorphs of the 5.2 K iron-free superconductor $SrPt_2As_2$ from first-principles calculations. 2011 , 83,		39
1299	Magnetic phase diagram of $CeAu_2Ge_2$: High magnetic anisotropy due to crystal electric field. 2011 , 84,		7
1298	Superconductivity and magnetic properties of single crystals of $K_{0.75}Fe_{1.66}Se_2$ and $Cs_{0.81}Fe_{1.61}Se_2$. 2011 , 83,		92
1297	Model of vortex states in hole-doped iron-pnictide superconductors. <i>Physical Review Letters</i> , 2011 , 106, 027004	7.4	28
1296	Different response of superconductivity to the transition-metal impurities in $K_{0.8}Fe_{2-x}M_xSe_2$ (M = Cr, Mn, Co, Zn). 2011 , 84,		31
1295	Large magnetoresistance effects in $LnCoAsO$ (Ln = Nd, Sm) with a ferromagnetic-antiferromagnetic transition. 2011 , 84,		13
1294	High transport critical current densities in textured Fe-sheathed $Sr_{1-x}K_xFe_2As_2+Sn$ superconducting tapes. 2011 , 99, 242506		64
1293	Competing magnetic ground states in nonsuperconducting $Ba(Fe_{1-x}Cr_x)_2As_2$ as seen via neutron diffraction. 2011 , 83,		61

1292	Raman scattering study of electron-doped $\text{PrxCa}_{1-x}\text{Fe}_2\text{As}_2$ superconductors. 2011 , 84,	14
1291	Theory of mixed-state effect on NMR relaxation measurements in iron pnictide superconductors. 2011 , 84,	3
1290	Enhanced critical current properties in $\text{Ba}_{0.6}\text{K}_{0.4+x}\text{Fe}_2\text{As}_2$ superconductor by overdoping of potassium. 2011 , 98, 042508	22
1289	Phase diagram of superconductivity and antiferromagnetism in single crystals of $\text{Sr}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ and $\text{Sr}_{1-x}\text{Eu}_x(\text{Fe}_{0.88}\text{Co}_{0.12})_2\text{As}_2$. 2011 , 83,	27
1288	Phonon, two-magnon, and electronic Raman scattering of $\text{Fe}_{1+y}\text{Te}_{1-x}\text{Sex}$. 2011 , 83,	40
1287	Anisotropic H_{c2} of $\text{K}_{0.8}\text{Fe}_{1.76}\text{Se}_2$ determined up to 60 T. 2011 , 83,	50
1286	Magnetic and electrical properties and carrier doping effects on the iron-based host compound $\text{Sr}_2\text{ScFeAsO}_3$. 2011 , 83,	6
1285	Calorimetric evidence of strong-coupling multiband superconductivity in $\text{Fe}(\text{Te}_{0.57}\text{Se}_{0.43})$ single crystal. 2011 , 83,	46
1284	Muon-spin rotation measurements of the magnetic penetration depth in the iron-based superconductor $\text{Ba}_{1-x}\text{RbxFe}_2\text{As}_2$. 2011 , 84,	18
1283	Character of the structural and magnetic phase transitions in the parent and electron-doped BaFe_2As_2 compounds. 2011 , 83,	123
1282	Evolution of correlation strength in $\text{KxFe}_{2-x}\text{S}_y\text{Se}_2$ superconductor doped with S. 2011 , 84,	13
1281	Soft and isotropic phonons in PrFeAsO_{1-x} . 2011 , 84,	17
1280	Linear decrease of critical temperature with increasing Zn substitution in the iron-based superconductor $\text{BaFe}_{1.89-x}\text{Zn}_{2x}\text{Co}_{0.11}\text{As}_2$. 2011 , 84,	47
1279	Structural and physical properties of CaFe_4As_3 . 2011 , 84,	6
1278	Nodeless energy gaps of single-crystalline $\text{Ba}_{0.68}\text{K}_{0.32}\text{Fe}_2\text{As}_2$ as seen via As_{75} NMR. 2011 , 83,	53
1277	Theory of the valley-density wave and hidden order in iron pnictides. 2011 , 83,	35
1276	Measurements of the anisotropic in-plane resistivity of underdoped FeAs-based pnictide superconductors. <i>Physical Review Letters</i> , 2011 , 107, 067001	7-4 93
1275	Pressure dependence of the low-temperature crystal structure and phase transition behavior of CaFeAsF and SrFeAsF : A synchrotron x-ray diffraction study. 2011 , 84,	10

1274	Large miscibility gap in the Ba(MnxFe _{1-x}) ₂ As ₂ system. 2011 , 84,	24
1273	Effect of doping on structural and superconducting properties in Ca _{1-x} NaxFe ₂ As ₂ single crystals (x=0.5, 0.6, 0.75). 2011 , 84,	23
1272	Effect of the isoelectronic substitution of Sb for As on the magnetic and structural properties of LaFe(As _{1-x} Sbx)O. 2011 , 84,	9
1271	Comparative study of the electronic and magnetic properties of BaFe ₂ As ₂ and BaMn ₂ As ₂ using the Gutzwiller approximation. 2011 , 84,	23
1270	Specific heat in KFe ₂ As ₂ in zero and applied magnetic field. 2011 , 83,	33
1269	Ambient- and low-temperature synchrotron x-ray diffraction study of BaFe ₂ As ₂ and CaFe ₂ As ₂ at high pressures up to 56 GPa. 2011 , 83,	91
1268	Doping dependence of the superconductivity of (Ca _{1-x} Nax)Fe ₂ As ₂ . 2011 , 84,	27
1267	Finite-temperature signatures of gap anisotropy in optical conductivity of ferropnictides. 2011 , 84,	4
1266	Transport properties of the new Fe-based superconductor KxFe ₂ Se ₂ (T _c =33 K). 2011 , 98, 042511	129
1265	Phase diagram of pressure-induced superconductivity in EuFe ₂ As ₂ probed by high-pressure resistivity up to 3.2 GPa. 2011 , 83,	41
1264	High-pressure study of superconducting and nonsuperconducting single crystals of the same nominal composition Rb _{0.8} Fe ₂ Se ₂ . 2011 , 84,	10
1263	Elastic stiffness of single-crystalline FeSe measured by picosecond ultrasonics. 2011 , 110, 073505	5
1262	Orthorhombic fluctuations in tetragonal AFe ₂ As ₂ (A=Sr and Eu). 2011 , 84,	9
1261	Fermi surface, structural and electronic properties of ThCr ₂ Si ₂ -type charge-balanced KFe ₂ AsSe: A parent system for the group of mixed pnictide-chalcogenide superconductors. 2011 , 84,	1
1260	Small anisotropy in iron-based superconductors induced by electron correlation. 2011 , 84,	4
1259	Self-assembled oxide nanopillars in epitaxial BaFe ₂ As ₂ thin films for vortex pinning. 2011 , 98, 042509	40
1258	High-field properties of pure and doped MgB ₂ and Fe-based superconductors. 2011 , 36, 626-630	2
1257	Tuning the ground state of BaFe ₂ As ₂ : Phase diagrams and empirical trends. 2011 , 36, 620-625	16

1256	High T(c) electron doped Ca ₁₀ (Pt ₃ As ₈)(Fe ₂ As ₂) ₅ and Ca ₁₀ (Pt ₄ As ₈)(Fe ₂ As ₂) ₅ superconductors with skutterudite intermediary layers. 2011 , 108, E1019-26	117
1255	A new iron pnictide oxide (Fe ₂ As ₂)(Ca ₅ (Mg, Ti) ₄ O _y) and a new phase in the FeAsCaMg system. 2011 , 24, 085020	11
1254	Superconducting properties of FeSe wires and tapes prepared by a gas diffusion technique. 2011 , 24, 065022	32
1253	Upper critical fields and superconducting anisotropy of K _{0.70} Fe _{1.55} Se _{1.01} S _{0.99} and K _{0.76} Fe _{1.61} Se _{0.96} S _{1.04} single crystals. 2011 , 95, 57006	10
1252	Anisotropic magnetism, resistivity, London penetration depth and magneto-optical imaging of superconducting K _{0.80} Fe _{1.76} Se ₂ single crystals. 2011 , 24, 065006	22
1251	Chemistry and electronic structure of iron-based superconductors. 2011 , 36, 614-619	33
1250	Superconductivity and magnetic properties in SmFe _{1-x} Co _x AsO (x=0 to 1). 2011 , 96, 17007	8
1249	A New Noncentrosymmetric Superconducting Phase in the LiRhB System. 2011 , 80, 013702	3
1248	In-plane electronic anisotropy of underdoped 122 Fe-arsenide superconductors revealed by measurements of detwinned single crystals. 2011 , 74, 124506	193
1247	Symmetry-breaking orbital anisotropy observed for detwinned Ba(Fe _{1-x} Cox) ₂ As ₂ above the spin density wave transition. 2011 , 108, 6878-6883	409
1246	Scaling of the temperature-dependent resistivity in 122 iron-pnictide superconductors. 2011 , 24, 105004	6
1245	Structural stability and electronic properties of the new superconductor (Ca ₄ Al ₂ O ₆ ∞)(Fe ₂ As ₂) from first-principles study. 2011 , 24, 105014	4
1244	Physical property and electronic structure characterization of bulk superconducting Bi ₃ Ni. 2011 , 24, 085002	29
1243	An anomalous tail effect in the resistivity transition and weak-link behavior of superconducting NdFeAsO _{0.88} F _{0.12} . 2011 , 24, 085011	9
1242	Analysis of interdiffusion between SmFeAsO _{0.92} F _{0.08} and metals for in situ fabrication of superconducting wire. 2011 , 24, 075024	9
1241	Synthesis and Electronic Properties of TlFe ₂ Se ₂ . 2011 , 170, 47-50	1
1240	Visualization of vortex motion in FeAs-based BaFe _{1.9} Ni _{0.1} As ₂ single crystal by means of magneto-optical imaging. 2011 , 109, 07E142	
1239	Structural phase transitions in EuFe ₂ As ₂ superconductor at low temperatures and high pressures. 2011 , 23, 365703	10

1238	Low-temperature synthesis of FeTe _{0.5} Se _{0.5} polycrystals with a high transport critical current density. 2011 , 24, 075025		24
1237	Hall sign reversal and electrical transport properties of single crystalline SrPd ₂ Ge ₂ . 2011 , 109, 07E109		2
1236	Unusual superconducting state at 49 K in electron-doped CaFe ₂ As ₂ at ambient pressure. 2011 , 108, 15705-9	110	
1235	Microwave Surface Impedance Measurements of LiFeAs Single Crystals. 2011 , 80, 013704		37
1234	Direct observation of nanometer-scale amorphous layers and oxide crystallites at grain boundaries in polycrystalline Sr _{1-x} K _x Fe ₂ As ₂ superconductors. 2011 , 98, 222504		31
1233	Electronic behavior of superconducting SmFeAsO _{0.75} . 2011 , 109, 083914		8
1232	ANALYSIS OF MAGNETIC CRITICAL FIELDS IN IRON-BASED SmFeAsO _{0.85} HIGH-T _c SUPERCONDUCTOR. 2011 , 25, 1939-1948		3
1231	Crystal structure, physical properties and superconductivity in A _x Fe ₂ Se ₂ single crystals. 2011 , 13, 053011		39
1230	One-step method to grow Ba _{0.6} K _{0.4} Fe ₂ As ₂ single crystals without fluxing agent. 2011 , 24, 065002		16
1229	Distinct Fermi surface topology and nodeless superconducting gap in a (Tl _{0.58} Rb _{0.42})Fe _{1.72} Se ₂ superconductor. <i>Physical Review Letters</i> , 2011 , 106, 107001	7.4	191
1228	Effect of pressure on a 111-type iron pnictide superconductor. 2011 , 31, 7-12		9
1227	Superconductivity and upper fields in Na-doped iron arsenides Eu _{1-x} Na _x Fe ₂ As ₂ . 2012 , 14, 033011		10
1226	Structural Quantum Criticality and Superconductivity in Iron-Based Superconductor Ba(Fe _{1-x} Cox) ₂ As ₂ . 2012 , 81, 024604		155
1225	A Possible New Parent Compound Sr ₄ Al ₂ O ₆ Fe ₂ As ₂ with High-TC Superconductivity. 2012 , 81, 024713		3
1224	Frontiers of Research on Iron-Based Superconductors toward Their Application. 2012 , 51, 010005		21
1223	Superconductivity in Novel BiS ₂ -Based Layered Superconductor LaO _{1-x} F _x BiS ₂ . 2012 , 81, 114725		344
1222	Mechanism of enhancement of superconducting properties in a Ba _{1-x} K _x Fe ₂ As ₂ superconductor by Pb addition. 2012 , 25, 084024		3
1221	Magnetic softness in iron-based superconductors. 2012 , 25, 084007		1

1220	Mixed-state effect on quasiparticle interference in iron-based superconductors. 2012 , 100, 37002	7
1219	Vortices and Chirality in Multi-Band Superconductors. 2012 , 81, 024712	52
1218	Magnetism and superconductivity in $\text{Eu}_{0.2}\text{Sr}_{0.8}(\text{Fe}_{0.86}\text{Co}_{0.14})_2\text{As}_2$ probed by ^{75}As NMR. 2012 , 24, 045702	2
1217	Superconductivity and phase diagram in Ru-doped $\text{SrFe}_{2-x}\text{Ru}_x\text{As}_2$ single crystals. 2012 , 97, 17008	1
1216	Ultrafast dynamics and phonon softening in $\text{Fe}_{1+y}\text{Se}_{1-x}$ single crystals. 2012 , 14, 103053	16
1215	Chemical pressure and electron doping effects in SrPd_2Ge_2 single crystals. 2012 , 111, 07E117	4
1214	Quasiparticle relaxation across the multiple superconducting gaps in the electron-doped $\text{BaFe}_{1.85}\text{Co}_{0.15}\text{As}_2$. 2012 , 111, 07E134	3
1213	Theoretical study of point-contact Andreev reflection spectroscopy for ferromagnetic-metal/multi-band superconductor junctions. 2012 , 111, 07C518	1
1212	Flux distribution in Fe-based superconducting materials by magneto-optical imaging. 2012 , 111, 07E143	3
1211	Anisotropies and Homogeneities of Superconducting Properties in Iron-Platinum-Arsenide $\text{Ca}_{10}(\text{Pt}_3\text{As}_8)(\text{Fe}_{1.79}\text{Pt}_{0.21}\text{As}_2)_5$. 2012 , 81, 114723	5
1210	High energy pseudogap and its evolution with doping in Fe-based superconductors as revealed by optical spectroscopy. 2012 , 24, 294202	30
1209	Electrochemical Synthesis of Iron-Based Superconductor FeSe Films. 2012 , 81, 043702	20
1208	Flux pinning and vortex transitions in doped BaFe_2As_2 single crystals. 2012 , 100, 072603	30
1207	Evolution of transport properties of $\text{BaFe}_{2-x}\text{Ru}_x\text{As}_2$ in a wide range of isovalent Ru substitution. 2012 , 85,	34
1206	Evolution of normal and superconducting properties of single crystals of $\text{Na}_{1-x}\text{FeAs}$ upon interaction with environment. 2012 , 85,	28
1205	Electronic structure of single-crystalline $\text{Sr}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ probed by x-ray absorption spectroscopy: Evidence for effectively isovalent substitution of Fe^{2+} by Co^{2+} . 2012 , 86,	22
1204	Phase diagram of $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$. 2012 , 85,	140
1203	Phase coexistence in $\text{Cs}_{0.8}\text{Fe}_{1.6}\text{Se}_2$ as seen by x-ray mapping of reciprocal space. 2012 , 86,	16

- 1202 Phase diagram as a function of doping level and pressure in the $\text{Eu}_{1-x}\text{La}_x\text{Fe}_2\text{As}_2$ system. **2012**, 85, 11
- 1201 Superconducting properties and magneto-optical imaging of $\text{Ba}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$ wires with Ag addition. **2012**, 25, 035019 22
- 1200 Evolution of Eu^{2+} spin dynamics in $\text{Ba}_{1-x}\text{Eu}_x\text{Fe}_2\text{As}_2$. **2012**, 86, 14
- 1199 Local magnetic anisotropy in BaFe_2As_2 : A polarized inelastic neutron scattering study. **2012**, 86, 48
- 1198 Superfluid density and superconducting gaps of RbFe_2As_2 as a function of hydrostatic pressure. **2012**, 86, 14
- 1197 Phase diagram and calorimetric properties of $\text{NaFe}_{1-x}\text{Co}_x\text{As}$. **2012**, 85, 65
- 1196 Anisotropic H_{c2} up to 92 T and the signature of multiband superconductivity in $\text{Ca}_{10}(\text{Pt}_4\text{As}_8)((\text{Fe}_{1-x}\text{Pt}_x)_2\text{As}_2)_5$. **2012**, 85, 27
- 1195 Doping dependence of Hall coefficient and evolution of coherent electronic state in the normal state of the Fe-based superconductor $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$. **2012**, 85, 33
- 1194 Magnetically polarized Ir dopant atoms in superconducting $\text{Ba}(\text{Fe}_{1-x}\text{Ir}_x)_2\text{As}_2$. **2012**, 85, 7
- 1193 Identical effects of indirect and direct electron doping of superconducting BaFe_2As_2 thin films. **2012**, 85, 41
- 1192 Phase transition of square-lattice antiferromagnets at finite temperature. **2012**, 86, 17
- 1191 Structural analysis and superconductivity of $\text{CeFeAsO}_{1-x}\text{H}_x$. **2012**, 85, 47
- 1190 Temperature dependence of the paramagnetic spin excitations in BaFe_2As_2 . **2012**, 86, 21
- 1189 Fluxon dynamics of a long Josephson junction with two-gap superconductors. **2012**, 85, 5
- 1188 Transport and magnetic properties of La-doped CaFe_2As_2 . **2012**, 85, 14
- 1187 Mixed-valence-driven heavy-fermion behavior and superconductivity in KNi_2Se_2 . **2012**, 86, 63
- 1186 Optical conductivity of superconducting $\text{K}_{0.8}\text{Fe}_2\text{Se}_2$ single crystals: Evidence for a Josephson-coupled phase. **2012**, 85, 19
- 1185 Effects of Ru substitution on electron correlations and Fermi-surface dimensionality in $\text{Ba}(\text{Fe}_{1-x}\text{Ru}_x)_2\text{As}_2$. **2012**, 86, 31

1184	Electronic properties of 3d transitional metal pnictides: A comparative study by optical spectroscopy. 2012 , 86,	40
1183	Evidence for filamentary superconductivity nucleated at antiphase domain walls in antiferromagnetic CaFe ₂ As ₂ . 2012 , 85,	39
1182	Structural collapse and superconductivity in rare-earth-doped CaFe ₂ As ₂ . 2012 , 85,	134
1181	Single crystal growth and superconductivity of Ca(Fe _{1-x} Co _x) ₂ As ₂ . 2012 , 92, 3113-3120	6
1180	Phase transitions in spin-orbital models with spin-space anisotropies for iron pnictides: Monte Carlo simulations. 2012 , 85,	28
1179	Vortex images on Ba _{1-x} K _x Fe ₂ As ₂ observed directly by magnetic force microscopy. 2012 , 85,	19
1178	Metamagnetic transition in Ca _{1-x} Sr _x Co ₂ As ₂ (x = 0 and 0.1) single crystals. 2012 , 85,	28
1177	Doping dependence of the electronic structure in phosphorus-doped ferropnictide superconductor BaFe ₂ (As _{1-x} P _x) ₂ studied by angle-resolved photoemission spectroscopy. 2012 , 86,	38
1176	Superconducting phase transitions induced by chemical potential in (2+1)-dimensional four-fermion quantum field theory. 2012 , 86,	11
1175	Fermi-surface topology and low-lying electronic structure of the iron-based superconductor Ca ₁₀ (Pt ₃ As ₈)(Fe ₂ As ₂) ₅ . 2012 , 85,	30
1174	Enhancement of critical current density and vortex activation energy in proton-irradiated Co-doped BaFe ₂ As ₂ . 2012 , 86,	57
1173	Gradual suppression of antiferromagnetism in BaFe ₂ (As _{1-x} P _x) ₂ : Zero-temperature evidence for a quantum critical point. 2012 , 85,	12
1172	Raman scattering study of the lattice dynamics of superconducting LiFeAs. 2012 , 85,	14
1171	Competition between stripe and checkerboard magnetic instabilities in Mn-doped BaFe ₂ As ₂ . 2012 , 86,	40
1170	Control of magnetic, nonmagnetic, and superconducting states in annealed Ca(Fe _{1-x} Co _x) ₂ As ₂ . 2012 , 85,	49
1169	Multiband effects on FeSe single crystals. 2012 , 85,	46
1168	High-resolution x-ray scattering studies of structural phase transitions in Ba(Fe _{1-x} Cr _x) ₂ As ₂ . 2012 , 85,	7
1167	Superconductivity and structural variation of the electron-correlated layer systems Sr(Pd _{1-x} T _x) ₂ Ge ₂ (T = Co, Ni, Rh; 0 ≤ x ≤ 1). 2012 , 85,	12

1166	Single-crystal growth and optical conductivity of SrPt ₂ As ₂ superconductors. 2012 , 85,	15
1165	Impurity states in multiband s-wave superconductors: Analysis of iron pnictides. 2012 , 86,	21
1164	Dimer impurity scattering, reconstructed Fermi-surface nesting, and density-wave diagnostics in iron pnictides. 2012 , 85,	7
1163	Role of different negatively charged layers in Ca ₁₀ (FeAs) ₁₀ (Pt ₄ As ₈) and superconductivity at 30 K in electron-doped (Ca _{0.8} La _{0.2}) ₁₀ (FeAs) ₁₀ (Pt ₃ As ₈). 2012 , 86,	38
1162	Electron spin resonance in Eu-based iron pnictides. 2012 , 86,	11
1161	Structural, thermal, magnetic, and electronic transport properties of the LaNi ₂ (Ge _{1-x} P _x) ₂ system. 2012 , 85,	69
1160	Muon spin rotation study of magnetism and superconductivity in Ba(Fe _{1-x} Cox) ₂ As ₂ single crystals. 2012 , 86,	43
1159	Collapsed tetragonal phase in Ca(Fe _{1-x} Cox) ₂ As ₂ stabilized by pressure: Structural studies using single-crystal neutron diffraction. 2012 , 85,	2
1158	Observation of a phase transition at 55 K in single-crystal CaCu _{1.7} As ₂ . 2012 , 86,	10
1157	Continuous critical temperature enhancement with gradual hydrogen doping in LaFeAsO _{0.85} H _x (x=0--0.85). 2012 , 86,	3
1156	Superconductivity suppression of Ba _{0.5} K _{0.5} Fe _{2-x} M _{2x} As ₂ single crystals by substitution of transition metal (M = Mn, Ru, Co, Ni, Cu, and Zn). 2012 , 85,	70
1155	Stability of the Fe electronic structure through temperature-, doping-, and pressure-induced transitions in the BaFe ₂ As ₂ superconductors. 2012 , 86,	4
1154	Local structure of the superconductor K _{0.8} Fe _{1.6+x} Se ₂ : Evidence of large structural disorder. 2012 , 85,	14
1153	Experimental and theoretical electronic structure of EuRh ₂ As ₂ . 2012 , 85,	0
1152	Weakly ferromagnetic metallic state in heavily doped Ba _{1-x} K _x Mn ₂ As ₂ . 2012 , 85,	29
1151	Doping dependence of antiferromagnetism in models of the pnictides. 2012 , 85,	8
1150	Magnetism and crystalline electric field effect in ThCr ₂ Si ₂ -type CeNi ₂ As ₂ . 2012 , 86,	18
1149	Effect of tensile stress on the in-plane resistivity anisotropy in BaFe ₂ As ₂ . 2012 , 85,	49

1148	Magnetic excitations in underdoped Ba(Fe _{1-x} Cox) ₂ As ₂ with x=0.047. 2012 , 86,	28
1147	Anomalous dependence of c-axis polarized Fe B1g phonon mode with Fe and Se concentrations in Fe _{1+y} Te _{1-x} Se _x . 2012 , 85,	24
1146	Magnetic phase transitions and large mass enhancement in single crystal CaFe ₄ As ₃ . 2012 , 21, 017402	2
1145	RAMAN SCATTERING IN IRON-BASED SUPERCONDUCTORS. 2012 , 26, 1230020	9
1144	Enhancement of superconducting properties in FeSe wires using a quenching technique. 2012 , 111, 013912	17
1143	High critical current density and low anisotropy in textured Sr _{1-x} K _x FeAs ₂ tapes for high field applications. 2012 , 2, 998	62
1142	Evolution of the 251 cm ⁻¹ infrared phonon mode with temperature in Ba _{0.6} K _{0.4} Fe ₂ As ₂ . 2012 , 21, 077403	4
1141	Pairing symmetry in the iron-pnictide superconductor KFe ₂ As ₂ . 2012 , 99, 57006	10
1140	Effect of starting materials on the superconducting properties of SmFeAsO _{1-x} F _x tapes. 2012 , 25, 035013	12
1139	Transport properties and anisotropy in rare-earth doped CaFe ₂ As ₂ single crystals with T _c above 40 K. 2012 , 25, 045007	17
1138	Evolution of Tetragonal Phase in the FeSe Wire Fabricated by a Novel Chemical-Transformation Powder-in-Tube Process. 2012 , 51, 010101	2
1137	Electronic and magnetic phase diagram in K(x)Fe(2-y)Se(2) superconductors. 2012 , 2, 212	102
1136	Pulsed laser deposition of BaFe ₂ (As,P) ₂ superconducting thin films with high critical current density. 2012 , 25, 105015	22
1135	Angular effects on upper critical field in LiFeAs using two-band Ginzburg-Landau theory. 2012 , 25, 095007	3
1134	Mn local moments prevent superconductivity in iron pnictides Ba(Fe _{1-x} Mn _x) ₂ As ₂ . 2012 , 99, 17002	42
1133	Microstructure and superconducting properties of Ag-sheathed (Ba, K)Fe ₂ As ₂ + Ag superconducting wires fabricated by an ex situ powder-in-tube process. 2012 , 25, 125010	4
1132	Growth of superconducting SmFeAs(O, F) epitaxial films by F diffusion. 2012 , 25, 035007	22
1131	Rare earth substitution in lattice-tuned Sr _{0.3} Ca _{0.7} Fe ₂ As ₂ solid solutions. 2012 , 25, 084014	1

1130	75 As Nuclear Magnetic Resonance Studies on $\text{Ba}(\text{Fe}_{1-x}\text{Ni}_x)_2\text{As}_2$ Single Crystals under High Pressure. 2012 , 29, 017401	1
1129	The influence of the sintering process on the superconducting property of $\text{Ba}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$. 2012 , 25, 035015	4
1128	Inverse-photoemission spectroscopy of iron-based superconductors NdFeAsO_{1-x} and $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. 2012 , 391, 012137	
1127	Elastic Anomalies Associated with superconducting phase transitions in Iron-based Superconductor $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. 2012 , 400, 022037	
1126	Iron based superconductors processing and properties. 2012 , 57, 311-327	20
1125	Calorimetric study of the superconducting and normal state properties of $\text{Ca}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$. 2012 , 391, 012120	3
1124	Powder x-ray diffraction of BaFe_2As_2 under hydrostatic pressure. 2012 , 400, 022017	3
1123	Effect of Co-doping on the resistivity and thermopower of $\text{SmFe}_{1-x}\text{Co}_x\text{AsO}$ ($0.0 \leq x \leq 0.3$). 2012 , 2, 042137	1
1122	Superconductivity in fluorine and yttrium co-doped SmFeAsO . 2012 , 111, 093912	5
1121	Local magnetic inhomogeneities observed via ^{75}As NMR in $\text{Ba}(\text{Fe}_{1-x}\text{Ni}_x)_2\text{As}_2$ with $H \parallel c$ -axis. 2012 , 344, 012022	0
1120	Magnetic properties of layered compounds LnCoAsO ($\text{Ln} = \text{lanthanoids}$) with itinerant-electron ferromagnetism. 2012 , 344, 012025	0
1119	Variation of superconductivity in the pseudoternary layer systems $\text{Sr}(\text{T}_{1-x}\text{T}'_x)_2\text{Ge}_2$ ($\text{T}, \text{T}' = \text{transition metals}$). 2012 , 391, 012131	2
1118	Cyclotron Resonance in Fe-based Superconductor KFe_2As_2 . 2012 , 400, 022054	
1117	Magnetic spectrum of the J_1 - J_2 model for pnictides. 2012 , 391, 012139	
1116	Spin glass instead of superconductivity in $\text{Ba}(\text{Fe}_{1-x}\text{Cr}_x/2\text{Ni}_x/2)_2\text{As}_2$. 2012 , 400, 032115	1
1115	Superconductivity in Pt Doped BaFe_2As_2 . 2012 , 81, 064704	7
1114	Review of NMR Studies on Iron-Based Superconductors. 2012 , 275-355	
1113	Unidirectional Electronic Structure in the Parent State of Iron-Chalcogenide Superconductor Fe_{1-x}Te . 2012 , 81, 074714	14

1112	Spin-Density-Wave Gap with Dirac Nodes and Two-Magnon Raman Scattering in BaFe ₂ As ₂ . 2012 , 81, 024718	16
1111	Field-Induced Magnetostructural Transitions in Antiferromagnetic Fe _{1+y} Te _{1-x} S _x . 2012 , 81, 063703	6
1110	ANOMALOUS ELASTIC BEHAVIOR AND ITS CORRELATION WITH SUPERCONDUCTIVITY IN IRON-BASED SUPERCONDUCTOR Ba(Fe _{1-x} Cox) ₂ As ₂ . 2012 , 26, 1230011	14
1109	Physical properties of A _x Fe ₂ As ₂ (A=K, Rb, and Cs) single crystals. 2012 , 85,	13
1108	Superconducting properties of single-crystalline A _x Fe ₂ As ₂ (A=Rb, K) studied using muon spin spectroscopy. 2012 , 85,	59
1107	A possible approach from BCS through HTS to RTS with three examples. 2012 , 482, 33-44	7
1106	Nematic orders in iron-based superconductors. 2012 , 481, 215-222	29
1105	Hydrostatic-pressure tuning of magnetic, nonmagnetic, and superconducting states in annealed Ca(Fe _{1-x} Cox) ₂ As ₂ . 2012 , 86,	41
1104	Evolution of the band structure of superconducting NaFeAs from optimally doped to heavily overdoped Co substitution using angle-resolved photoemission spectroscopy. 2012 , 86,	18
1103	MgFeGe as an isoelectronic and isostructural analog of the superconductor LiFeAs. 2012 , 85,	12
1102	High pressure neutron and synchrotron X-ray diffraction studies of tetragonal LaFeAsO _{0.9} F _{0.1} . 2012 , 32, 405-411	2
1101	First-principles calculations of the electronic structure of iron-pnictide EuFe ₂ (As,P) ₂ superconductors: Evidence for antiferromagnetic spin order. 2012 , 86,	19
1100	ZrCuSiAs type layered oxypnictides: A bird's eye view of LnMPnO compositions. 2012 , 40, 41-56	27
1099	Atomic and electronic structures of FeSe monolayer and bilayer thin films on SrTiO ₃ (001): First-principles study. 2012 , 85,	73
1098	Progress in wire fabrication of iron-based superconductors. 2012 , 25, 113001	128
1097	Intrinsic crystal phase separation in the antiferromagnetic superconductor Rb(y)Fe(2-x)Se ₂ : a diffraction study. 2012 , 24, 435701	26
1096	Effects of particle irradiations on vortex states in iron-based superconductors. 2012 , 25, 084008	80
1095	Theoretical Study of Point-Contact Andreev Reflection Spectroscopy for Ferromagnetic Metal/Insulator/D-Wave Superconductor Junctions. 2012 , 48, 2827-2830	

1094	Crystal and electronic structures of metallic Ba ₂ Pd ₅ Ge ₄ . 2012 , 41, 12920-5	1
1093	Crystallographic and magnetic phase transitions in the layered ruthenium oxyarsenides TbRuAsO and DyRuAsO. 2012 , 51, 8502-8	2
1092	Symmetry breaking via orbital-dependent reconstruction of electronic structure in detwinned NaFeAs. 2012 , 85,	113
1091	Structural phase transitions in SrRh ₂ As ₂ . 2012 , 85,	15
1090	Thin Film Growth and Device Fabrication of Iron-Based Superconductors. 2012 , 81, 011011	47
1089	Artificial and self-assembled vortex-pinning centers in superconducting Ba(Fe _{1-x} Cox) ₂ As ₂ thin films as a route to obtaining very high critical-current densities. 2012 , 86,	39
1088	Structural Phase Separation in K _{0.8} Fe _{1.6+x} Se ₂ Superconductors. 2012 , 116, 17847-17852	58
1087	U(1) slave-spin theory and its application to Mott transition in a multiorbital model for iron pnictides. 2012 , 86,	62
1086	Ternary arsenides A ₂ Zn ₂ As ₃ (A = Sr, Eu) and their stuffed derivatives A ₂ Ag ₂ ZnAs ₃ . 2012 , 51, 2621-8	26
1085	Multiband superconductivity in Co-doped SrFe ₂ As ₂ investigated using local magnetic imaging. 2012 , 25, 045011	
1084	BiS ₂ -based layered superconductor Bi ₄ O ₄ S ₃ . 2012 , 86,	336
1083	Two-dome structure in electron-doped iron arsenide superconductors. 2012 , 3, 943	174
1082	Disappearance of superconductivity in the solid solution between (Ca ₄ Al ₂ O ₆)(Fe ₂ As ₂) and (Ca ₄ Al ₂ O ₆)(Fe ₂ P ₂) superconductors. 2012 , 134, 15181-4	7
1081	Simultaneous measurement of pressure evolution of crystal structure and superconductivity in FeSe 0.92 using designer diamonds. 2012 , 99, 26002	10
1080	Similar zone-center gaps in the low-energy spin-wave spectra of Na _{1-x} BeAs and BaFe ₂ As ₂ . 2012 , 86,	31
1079	Effect of iron content and potassium substitution in A _{0.8} Fe _{1.6} Se ₂ (A=K, Rb, Tl) superconductors: A Raman scattering investigation. 2012 , 86,	14
1078	Pseudogap in underdoped Ba _{1-x} K _x Fe ₂ As ₂ as seen via optical conductivity. 2012 , 86,	43
1077	Magnetism and its microscopic origin in iron-based high-temperature superconductors. 2012 , 8, 709-718	420

1076	A common thread: The pairing interaction for unconventional superconductors. 2012 , 84, 1383-1417	825
1075	Iron based superconductors: Pnictides versus chalcogenides. 2012 , 324, 3481-3486	35
1074	Crystal structure, electrical resistivity, and X-ray photoelectron spectroscopy of BaAg ₂ As ₂ . 2012 , 194, 113-118	4
1073	Structural, electronic, elastic properties and chemical bonding in LaNi ₂ P ₂ and LaNi ₂ Ge ₂ from first principles. 2012 , 26, 1-7	9
1072	First-principles study of Fe-based superconductors: A comparison of screened hybrid functional with gradient corrected functional. 2012 , 55, 284-294	4
1071	Fabrication of binary FeSe superconducting wires by diffusion process. 2012 , 111, 112620	37
1070	Strongly correlated materials. 2012 , 24, 4896-923	90
1069	Resonant inelastic X-ray scattering (RIXS) on magnetic EuCo ₂ P ₂ -based systems. 2012 , 96, 44-48	6
1068	Superconductivity at T _c = 44 K in Li _x Fe ₂ Se ₂ (NH ₃) _y . 2012 , 85, 1	85
1067	Fe K-edge X-ray resonant magnetic scattering from Ba(Fe _{1-x} Co _x) ₂ As ₂ superconductors. 2012 , 208, 157-164	1
1066	Unconventional multiband superconductivity with nodes in single-crystalline SrFe ₂ (As _{0.65} P _{0.35}) ₂ as seen via ³¹ P NMR and specific heat. 2012 , 85,	20
1065	Fully-gapped superconductivity in Ba _{0.55} K _{0.45} Fe _{1.95} Co _{0.05} As ₂ : A low-temperature specific heat study. 2012 , 85,	3
1064	Polarized neutron scattering studies of magnetic excitations in electron-overdoped superconducting BaFe _{1.85} Ni _{0.15} As ₂ . 2012 , 85,	25
1063	Electron doping evolution of the anisotropic spin excitations in BaFe _{2-x} Ni _x As ₂ . 2012 , 86,	40
1062	Neutron scattering study of underdoped Ba _{1-x} K _x Fe ₂ As ₂ (x=0.09 and 0.17) self-flux-grown single crystals and the universality of the tricritical point. 2012 , 85,	3
1061	Paraconductivity of the K-doped SrFe ₂ As ₂ superconductor. 2012 , 14, 043001	11
1060	Iron-based superconductors: Magnetism, superconductivity, and electronic structure (Review Article). 2012 , 38, 888-899	159
1059	Properties of FeSe nanobridges prepared by using a focused ion beam. 2012 , 61, 1430-1434	3

1058	Fabrication of BaKFeAs intergrain nanobridges by using a focused ion beam. 2012 , 61, 1449-1452	4
1057	Hydrostatic and uniaxial pressure dependence of superconducting transition temperature of KFe ₂ As ₂ single crystals. 2012 , 86,	24
1056	Upper critical field, critical current density and thermally activated flux flow in CaFe _{0.9} Co _{0.1} As superconductor. 2012 , 25, 045004	8
1055	Challenges in intermetallics: synthesis, structural characterization, and transitions. 2012 , 41, 14225-35	9
1054	Physics and chemistry of layered chalcogenide superconductors. 2012 , 13, 054303	71
1053	Phonon density of states and the search for a resonance mode in LaFeAsO _{0.85} F _{0.15} (T _c = 26 K). 2012 , 340, 012074	2
1052	Magnetic and transport properties of iron-platinum arsenide Ca ₁₀ (Pt ₄ As ₈)(Fe ₂ P _x As ₂) ₅ single crystal. 2012 , 85,	19
1051	Thermodynamic phase diagram, phase competition, and uniaxial pressure effects in BaFe ₂ (As _{1-x} P _x) ₂ studied by thermal expansion. 2012 , 86,	37
1050	Penetration and de-pinning of vortices in sub-micrometer Ba(Fe,Co) ₂ As ₂ thin film bridges. 2012 , 479, 164-166	2
1049	Synthesis and characterization of (Ba, Sr)Fe ₂ (As, P) ₂ iron pnictide superconductors. 2012 , 483, 67-70	4
1048	Superconducting and thermoelectric properties of new layered superconductor Bi ₄ O ₄ S ₃ . 2012 , 483, 94-96	41
1047	Magnetothermoelectric effects in Fe _{1+d} Te _{1-x} Se _x . 2012 , 483, 21-25	10
1046	Evidence of a spin resonance mode in the iron-based superconductor Ba(0.6)K(0.4)Fe ₂ As ₂ from scanning tunneling spectroscopy. <i>Physical Review Letters</i> , 2012 , 108, 227002	7-4 45
1045	Magnetic X-Ray Scattering. 2012 , 1	1
1044	Clarification as to why alcoholic beverages have the ability to induce superconductivity in Fe _{1+d} Te _{1-x} S _x . 2012 , 25, 084025	21
1043	BaFe ₂ Se ₂ O as an iron-based Mott insulator with antiferromagnetic order. 2012 , 86,	21
1042	Crystal growth and physical properties of SrCu ₂ As ₂ , SrCu ₂ Sb ₂ , and BaCu ₂ Sb ₂ . 2012 , 85,	61
1041	Pressure-induced superconductivity in Ba _{0.5} Sr _{0.5} Fe ₂ As ₂ . 2012 , 24, 495702	1

1040	Pressure Dependence of Superconductivity in FeSe studied by DC Magnetic Measurements. 2012 , 400, 022075		1
1039	Iron chalcogenide superconductors at high magnetic fields. 2012 , 13, 054305		29
1038	Conductivity and incommensurate antiferromagnetism of Fe _{1.02} Se _{0.10} Te _{0.90} under pressure. 2012 , 98, 37002		1
1037	Metastable superconducting state in quenched K _x Fe ₂ Se ₂ . 2012 , 92, 2553-2562		34
1036	Growth of single-crystal Ca ₁₀ (Pt ₄ As ₈)(Fe _{1.8} Pt _{0.2} As ₂) ₅ nanowhiskers with superconductivity up to 33 K. 2012 , 134, 4068-71		10
1035	Superconductivity and magnetism in 11-structure iron chalcogenides in relation to the iron pnictides. 2012 , 13, 054304		24
1034	Competition and cooperation of pinning by extrinsic point-like defects and intrinsic strong columnar defects in BaFe ₂ As ₂ thin films. 2012 , 86,		38
1033	Metastable 11 K superconductor Na _(1-y) Fe _(2-x) As ₂ . 2012 , 51, 8161-7		20
1032	High-pressure structural phase transitions in chromium-doped BaFe ₂ As ₂ . 2012 , 377, 012016		4
1031	High, magnetic field independent critical currents in (Ba,K)Fe ₂ As ₂ crystals. 2012 , 101, 012601		70
1030	⁷⁵ As NMR-NQR study in superconducting LiFeAs. 2012 , 85, 1		24
1029	MULTIPLE SUPERCONDUCTING GAPS, ANISOTROPIC SPIN FLUCTUATIONS AND SPIN-ORBIT COUPLING IN IRON-PNICTIDES. 2012 , 26, 1230008		4
1028	Inelastic neutron-scattering measurements of incommensurate magnetic excitations on superconducting LiFeAs single crystals. <i>Physical Review Letters</i> , 2012 , 108, 117001	7.4	63
1027	Improved transport critical current in Ag and Pb co-doped BaK _{1-x} Fe ₂ As ₂ superconducting tapes. 2012 , 25, 035020		16
1026	Electronic origin of high-temperature superconductivity in single-layer FeSe superconductor. 2012 , 3, 931		427
1025	Development of viable solutions for the synthesis of sulfur bearing single crystals. 2012 , 92, 2436-2447		23
1024	Magnetic structure of quasi-one-dimensional antiferromagnetic TaFe _{1+y} Te ₃ . 2012 , 85,		7
1023	Pairing Mechanism in Fe-Based Superconductors. 2012 , 3, 57-92		376

1022	Angle-Resolved Photoemission Studies of Quantum Materials. 2012 , 3, 129-167	59
1021	Satellites and large doping and temperature dependence of electronic properties in hole-doped BaFe ₂ As ₂ . 2012 , 8, 331-337	150
1020	Ba ₂ Ti ₂ Fe ₂ As ₄ O: A new superconductor containing Fe ₂ As ₂ layers and Ti ₂ O sheets. 2012 , 134, 12893-6	62
1019	Synthesis and Superconductivity of CeNi _{0.8} Bi ₂ : New Entrant in Superconductivity Kitchen?. 2012 , 25, 723-724	1
1018	Hole doping in BaFe ₂ As ₂ : The case of Ba _{1-x} NaxFe ₂ As ₂ single crystals. 2012 , 85,	34
1017	Current status of iron-based superconductors. 2012 , 208, 123-131	2
1016	EuRu ₂ As ₂ : A New Ferromagnetic Metal with Collapsed ThCr ₂ Si ₂ -Type Structure. 2012 , 25, 441-445	6
1015	Scaling of the Temperature Dependent Resistivity in 11 Iron-Pnictide Superconductors. 2012 , 25, 1753-1759	1
1014	A Simple Fabrication of FeSe Superconductors with High Upper Critical Field. 2012 , 25, 1781-1785	8
1013	One-dimensional Electronic Order in Fe _{1.07} Te Probed by Scanning Tunneling Spectroscopy. 2012 , 25, 1273-1276	1
1012	Trace element-incorporating octacalcium phosphate porous beads via polypeptide-assisted nanocrystal self-assembly for potential applications in osteogenesis. 2012 , 8, 1586-96	26
1011	Rapid microwave synthesis of the iron arsenides NdFeAsO and NdFe _{0.9} Co _{0.1} AsO. 2012 , 47, 798-800	10
1010	Electronic structure and chemical bonding of ThCr_2Si_2 and CeIr_2Si_2 intermediate valence compounds. 2012 , 186, 81-86	5
1009	Synthesis, physical properties and electronic structure of Sr _{1-x} LaxCu ₂ Pn ₂ (Pn=P, As, Sb). 2012 , 187, 323-327	3
1008	Large elastic anomalies and strong electron-lattice coupling in iron-based superconductor Ba(Fe _{1-x} Cox) ₂ As ₂ . 2012 , 152, 680-687	5
1007	Relationship between crystal structure and superconductivity in iron-based superconductors. 2012 , 152, 644-648	62
1006	Fabrication and transport properties of ex situ powder-in-tube (PIT) processed (Ba,K)Fe ₂ As ₂ superconducting wires. 2012 , 152, 740-746	32
1005	Superconducting compounds with metallic square net. 2012 , 152, 666-670	6

1004	Angle-resolved photoemission study on the superconducting iron-pnictides of $\text{BaFe}_2(\text{As,P})_2$ with low energy photons. 2012 , 152, 695-700	7
1003	A few points on iron-based superconductors. 2012 , 152, 660-665	4
1002	Iron-platinum-arsenide superconductors $\text{Ca}_{10}(\text{Pt}_n\text{As}_8)(\text{Fe}_{2-x}\text{Pt}_x\text{As}_2)_5$. 2012 , 152, 635-639	28
1001	Impurity effects on the Fe-based superconductor $\text{A}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ (A=Ba and Sr). 2012 , 152, 671-679	18
1000	High- superconductivity in the $\text{LaFeAsO}_{1-x}\text{F}_x$ system based on inelastic neutron scattering measurements. 2012 , 152, 653-659	2
999	Superconductivity in PbO-type tetragonal FeSe nanoparticles. 2012 , 152, 649-652	24
998	Phase diagram and oxygen annealing effect of $\text{FeTe}_{1-x}\text{Se}_x$ iron-based superconductor. 2012 , 152, 1135-1138	57
997	Irreversible magnetization in isovalently doped $\text{Ba}(\text{Fe}_{1-x}\text{Ru}_x)_2\text{As}_2$. 2012 , 27, 104-107	1
996	Charge stripe structure in FeTe. 2012 , 407, 1796-1798	3
995	Electronic structure and phonon spectrum of binary iron-based superconductor FeSe in both nonmagnetic and striped antiferromagnetic phases. 2012 , 472, 29-33	9
994	Structural properties of $\text{BaFe}_{1.8}\text{Ni}_{0.2}\text{As}_2$ under pressure. 2012 , 474, 1-4	7
993	Irreversibility line of $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ ($T_c=36.9\text{K}$) superconductor studied with ac-susceptibility measurements. 2012 , 476, 68-72	5
992	Superconducting and excitonic quantum phase transitions in doped Dirac electronic systems. 2012 , 376, 779-784	14
991	The electronic structure and magnetism of KxFe_2Se_2 . 2012 , 376, 1072-1077	5
990	Symmetry analysis of the structural and magnetic phase transitions in 122 iron arsenides. 2012 , 68, 209-12	10
989	Enhancement of Superconductivity in Quenched Fe-FeSe Flakes. 2013 , 26, 3349-3353	3
988	Scaling of the Temperature Dependent Resistivity in 111 Iron-Pnictide Superconductors. 2013 , 26, 2727-2734	1
987	A Structural and Electronic Properties DFT Study of BaFe_2As_2 and Two Derived Substitution Compounds. 2013 , 26, 2403-2409	

986	Superconductivity at 35.5 K in K-Doped CaFe ₂ As ₂ . 2013 , 26, 2121-2124		13
985	Anisotropy Parameters of Critical Fields in LiFeAs Using Two-Band Ginzburg-Landau Theory. 2013 , 26, 1903-1907		1
984	Theoretical Analysis of Isotope Effect Exponent of Diboride and Iron-Based Superconductors: Three-Square-Well Model Approach. 2013 , 26, 1195-1198		2
983	Superconductivity induced by hydrogen anion substitution in 1111-type iron arsenides. 2013 , 17, 49-58		24
982	Vortex phase transition and isotropic flux dynamics in K _{0.8} Fe ₂ Se ₂ single crystal lightly doped with Mn. 2013 , 103, 052602		20
981	Magnetic Properties of FeAs Single Crystal. 2013 , 26, 1185-1188		6
980	Pressure-induced phase transitions and correlation between structure and superconductivity in iron-based superconductor Ce(O(0.84)F(0.16))FeAs. 2013 , 52, 8067-73		6
979	Fermi surface in KFe ₂ As ₂ determined via de Haas-van Alphen oscillation measurements. 2013 , 87,		47
978	Effects of pressure on the electronic structures of LaOFeP. 2013 , 377, 1479-1485		
977	Evidence of strong correlations and coherence-incoherence crossover in the iron pnictide superconductor KFe ₂ As ₂ . <i>Physical Review Letters</i> , 2013 , 111, 027002	7.4	117
976	Finite temperature and pressure molecular dynamics for BaFe ₂ As ₂ . 2013 , 88,		8
975	Superconductivity in 122 antimonide SrPt ₂ Sb ₂ . 2013 , 26, 075001		18
974	Quantum criticality in electron-doped BaFe _{2-x} NixAs ₂ . 2013 , 4, 2265		78
973	Angular dependence of the resistive upper critical field of the iron-based superconductor Fe _{1+y} (Te,Se) in high magnetic fields. 2013 , 62, 1997-2000		
972	Analysis of the critical current density and flux pinning properties in iron-based Ba _{0.55} K _{0.45} Fe ₂ As ₂ high-T _c superconductor. 2013 , 62, 2011-2015		
971	LDA+DMFT investigation of electronic structure of K _{1-x} Fe _{2-y} Se ₂ superconductor. 2013 , 97, 15-19		11
970	Transition-Metal Pnictides. 2013 , 111-135		3
969	Lattice dynamics of Ti-based pnictide superconductors Ba _{1-x} NaxTi ₂ Sb ₂ O. 2013 , 87,		5

968	Enhanced density of states in Li(Fe _{1-x} Cox)As single crystals near x = 0.06 as implied by transport properties. 2013 , 495, 130-133	2
967	Electronic, elastic and thermal properties of SrCu ₂ As ₂ via first principles calculation. 2013 , 570, 156-161	8
966	Iron-based superconductors in high magnetic fields. 2013 , 14, 94-105	11
965	Influence of microstructure on superconductivity in KxFe _{1-y} Se _{1-x} and evidence for a new parent phase K _{1-x} Fe _{1-x} Se _{1-x} 2013 , 4, 1897	85
964	Crystal, magnetic, and electronic structures, and properties of new BaMnPnF (Pn = As, Sb, Bi). 2013 , 3, 2154	21
963	Crystal chemistry and structural design of iron-based superconductors. 2013 , 22, 087410	32
962	Hidden (D) instability as an itinerant origin of bicollinear antiferromagnetism in Fe _{1+x} Te. 2013 , 87,	13
961	Superconducting phases in potassium-intercalated iron selenides. 2013 , 135, 2951-4	138
960	Ba ₁₃ Si ₆ Sn ₈ As ₂₂ : a quaternary Zintl phase containing adamantane-like [Si ₄ As ₁₀] clusters. 2013 , 52, 11836-42	9
959	Absence of superconductivity in the hole-doped Fe pnictide Ba(Fe _{1-x} Mnx) ₂ As ₂ : Photoemission and x-ray absorption spectroscopy studies. 2013 , 88,	22
958	Weak magnetism and the Mott state of vanadium in superconducting Sr ₂ VO ₃ FeAs. 2013 , 88,	10
957	Molecular beam epitaxy and superconductivity of stoichiometric FeSe and KxFe _{2-y} Se ₂ crystalline films. 2013 , 22, 086801	11
956	Vortex-glass phase transition and enhanced flux pinning in C ₄₊ -irradiated BaFe _{1.9} Ni _{0.1} As ₂ superconducting single crystals. 2013 , 26, 095014	20
955	Functional renormalization group for multi-orbital Fermi surface instabilities. 2013 , 62, 453-562	126
954	Spin-density-wave-induced anomalies in the optical conductivity of AFe ₂ As ₂ , (A=Ca, Sr, Ba) single-crystalline iron pnictides. 2013 , 88,	22
953	Pressure-induced superconductivity in EuFe ₂ As ₂ without a quantum critical point: Magnetotransport and upper critical field measurements under high pressure. 2013 , 88,	10
952	Magnetic catalysis effect in the (2+1)-dimensional Gross-Neveu model with Zeeman interaction. 2013 , 88,	7
951	Effect of excess Fe on magnetic properties and crystallographic phases in Fe _{1+x} Te. 2013 , 484, 19-21	7

- 950 Unusual pressure effects on the superconductivity of indirectly electron-doped $(\text{Ba}_{1-x}\text{La}_x)\text{Fe}_2\text{As}_2$ epitaxial films. **2013**, 88, 16
- 949 Coexistence of cluster spin glass and superconductivity in $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ for $0.060 \leq x \leq 0.071$. *Physical Review Letters*, **2013**, 111, 207201 7-4 52
- 948 Doping effect of Cu and Ni impurities on the Fe-based superconductor $\text{Ba}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$. **2013**, 104, 37007 12
- 947 Chemical excision of tetrahedral $\text{FeSe}(2)$ chains from the superconductor FeSe : synthesis, crystal structure, and magnetism of $\text{Fe}(3)\text{Se}(4)(\text{en})(2)$. **2013**, 135, 19111-4 31
- 946 Upper critical field of isoelectron substituted $\text{SrFe}_2(\text{As}_{1-x}\text{Px})_2$. **2013**, 87, 11
- 945 Effect of heavy-ion irradiation on superconductivity in $\text{Ba}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$. **2013**, 87, 16
- 944 New layered iron sulfide $\text{NaFe}(1.6)\text{S}_2$: synthesis and characterization. **2013**, 52, 12860-2 12
- 943 New superconductor SrPt_2Ge_2 with $T_c=10.2\text{K}$. **2013**, 493, 93-95 9
- 942 Tartaric acid in red wine as one of the key factors to induce superconductivity in $\text{FeTe}_{0.8}\text{S}_{0.2}$. **2013**, 487, 16-18 8
- 941 Doping dependence of correlation effects in $\text{K}_1-x\text{Fe}_2-x\text{Se}_2$ superconductors: LDA+DMFT investigation. **2013**, 117, 926-932 7
- 940 ^{75}As NMR local probe study of magnetism in $(\text{Eu}_{1-x}\text{K}_x)\text{Fe}_2\text{As}_2$. **2013**, 86, 1 1
- 939 Phosphide oxides $\text{RE}_2\text{AuP}_2\text{O}$ (RE = La, Ce, Pr, Nd): synthesis, structure, chemical bonding, magnetism, and ^{31}P and ^{139}La solid state NMR. **2013**, 52, 2094-102 12
- 938 Magnetic properties and spin dynamics in $\text{Ba}(\text{Fe}_{1-x}\text{Mn}_x)_2\text{As}_2$ compounds studied by ^{57}Fe Mössbauer spectroscopy. **2013**, 25, 135703 1
- 937 Bulk synthesis of iron-based superconductors. **2013**, 17, 59-64 32
- 936 Tunneling spectra and superconducting gaps observed by scanning tunneling microscopy near the grain boundaries of $\text{FeSe}_{0.3}\text{Te}_{0.7}$ films. **2013**, 495, 74-78 2
- 935 Phase diagram and annealing effect for $\text{Fe}_{1-x}\text{S}_x$ single crystals. **2013**, 25, 385701 6
- 934 Superconducting properties of $\text{Ca}_{1-x}\text{RE}_x\text{Fe}_2\text{As}_2$ (RE: Rare Earths). **2013**, 484, 31-34 12
- 933 Superconducting Properties and Phase Diagram of Indirectly Electron-Doped $(\text{Sr}_{1-x}\text{La}_x)\text{Fe}_2\text{As}_2$ Epitaxial Films Grown by Pulsed Laser Deposition. **2013**, 23, 7300405-7300405 13

932	Conductance spectrum and superconducting gap structures observed in c-axis FeSe _{0.46} Te _{0.54} /Au junctions. 2013 , 114, 123912		3
931	Spin, charge, and orbital orderings in iron-based superconductors. 2013 , 22, 087402		4
930	Probing the anisotropic vortex lattice in the Fe-based superconductor KFe ₂ As ₂ using small-angle neutron scattering. 2013 , 88,		6
929	Electron-phonon coupling in cuprate and iron-based superconductors revealed by Raman scattering. 2013 , 22, 087103		17
928	Spin-phonon coupling in K _{0.8} Fe _{1.6} Se ₂ and KFe ₂ Se ₂ : Inelastic neutron scattering and ab initio phonon calculations. 2013 , 87,		13
927	Enhancement of the superconducting transition temperature of FeSe by intercalation of a molecular spacer layer. 2013 , 12, 15-9		324
926	Interband quasiparticle scattering in superconducting LiFeAs reconciles photoemission and tunneling measurements. <i>Physical Review Letters</i> , 2013 , 110, 017006	7-4	13
925	Solid Phase Epitaxial Growth of Fe(Te, S) Thin Films and Their Superconducting Properties. 2013 , 23, 7500104-7500104		4
924	The iron-age of superconductivity: structural correlations and commonalities among the various families having -Fe-Pn- slabs (Pn = P, As and Sb). 2013 , 42, 569-98		25
923	Muon-Spin Rotation and Magnetization Studies of Chemical and Hydrostatic Pressure Effects in EuFe ₂ (As _{1-x} P _x) ₂ . 2013 , 26, 285-295		14
922	Enhanced transport critical current density in textured Sr _{0.6} K _{0.4} Fe ₂ As ₂ + Ag tapes by an intermediate sintering process of precursors. 2013 , 490, 37-42		7
921	First-principles study on iron-pnictide superconductors Ca(Fe _{1-x} Cox) ₂ As ₂ . 2013 , 154, 11-14		6
920	Theoretical investigation of isotope effect of the iron-based superconductors. 2013 , 485, 71-74		1
919	New diluted ferromagnetic semiconductor with Curie temperature up to 180 K and isostructural to the '122' iron-based superconductors. 2013 , 4, 1442		128
918	Modulated crystal structure of Pr ₂ SbO ₂ . 2013 , 69, 547-55		7
917	Phase diagram and physical properties of NaFe _{1-x} CuxAs single crystals. 2013 , 88,		32
916	Superconductivity in Ca _{1-x} LaxFeAs ₂ : A Novel 112-Type Iron Pnictide with Arsenic Zigzag Bonds. 2013 , 82, 123702		124
915	Large transport J _c in Sn-added SmFeAsO _{1-x} F _x tapes prepared by an ex situ PIT method. 2013 , 26, 075017		12

914	The antimonide oxides REZnSbO and REMnSbO (RE = Ce, Pr) – An XPS study. 2013 , 17, 122-127	72
913	Critical current density and grain boundary property of BaFe ₂ (As,P) ₂ thin films. 2013 , 494, 181-184	35
912	Metal-insulator transition in Na-doped post-spinel CdRh ₂ O ₄ . 2013 , 563, 119-123	4
911	Calculation of the transport critical current density of c-axis textured 122 iron-based superconductors. 2013 , 485, 149-153	1
910	Quasi-periodic magnetic flux jumps in the superconducting state of Ba _{0.5} K _{0.5} Fe _{1.9} M _{0.1} As ₂ (M = Fe, Co, Ni, Cu, and Zn). 2013 , 495, 192-197	3
909	Superconducting properties of LiFe _{1-x} Cu _x As single crystals. 2013 , 493, 141-142	5
908	Upper fields and critical current density of K _{0.58} Fe _{1.56} Se ₂ single crystals grown by one step technique. 2013 , 492, 18-20	8
907	Effects of heating condition and Sn addition on the microstructure and superconducting properties of Sr _{0.6} K _{0.4} Fe ₂ As ₂ tapes. 2013 , 495, 48-54	26
906	Effects of oxide precursors on superconducting properties of polycrystalline SmFeAsO _{1-x} F _x . 2013 , 495, 198-201	
905	Effect of Sb and Si doping on the superconducting properties of FeSe _{0.9} . 2013 , 485, 137-144	16
904	New ternary phosphides and arsenides. Syntheses, crystal structures, physical properties of Eu ₂ ZnP ₂ , Eu ₂ Zn ₂ P ₃ and Eu ₂ Cd ₂ As ₃ . 2013 , 205, 116-121	13
903	Uniaxial pressure effects on the transport properties in Ba(Fe _{1-x} Co _x) ₂ As ₂ single crystals. 2013 , 494, 62-64	2
902	Hydrostatic pressure (8 GPa) dependence of electrical resistivity of BaCo ₂ As ₂ single crystal. 2013 , 48, 4329-4331	3
901	Effect of pressure on structural, electronic and bonding properties of CaTM ₂ Pn ₂ (TM=Ni, Pd; Pn=P, As) compounds: A full potential computational study. 2013 , 561, 268-275	8
900	Discovery of the Ca ₄ Al ₂ O ₆ Fe ₂ Pn ₂ – Al-42622(Pn) and Ca ₃ Al ₂ O ₅ Fe ₂ Pn ₂ – Al-32522(Pn) (Pn=As, P) superconductors. 2013 , 484, 12-15	6
899	Magnetic ordering and electron correlation of iron-based superconductor (Ca ₃ Al ₂ O ₅) ₂ (Fe ₂ As ₂) from first-principles study. 2013 , 172, 41-48	
898	Effect of doping on the magnetostructural ordered phase of iron arsenides: a comparative study of the resistivity anisotropy in doped BaFe ₂ As ₂ with doping into three different sites. 2013 , 135, 3158-63	39
897	Magnetism and superconductivity in EuFe ₂ As ₂ synthesized under high pressure. 2013 , 250, 589-592	4

896	Modelling the electronic structure and magnetic properties of LiFeAs and FeSe using hybrid-exchange density functional theory. 2013 , 161, 23-28	5
895	Type II superconductivity in SrPd ₂ Ge ₂ . 2013 , 26, 015010	5
894	Dependence of carrier doping on the impurity potential in transition-metal-substituted FeAs-based superconductors. <i>Physical Review Letters</i> , 2013 , 110, 107007	7-4 63
893	Fabrication and transport properties of Sr _{0.6} K _{0.4} Fe ₂ As ₂ multifilamentary superconducting wires. 2013 , 102, 082602	25
892	Two-band superconductivity in doped SrTiO ₃ films and interfaces. 2013 , 87,	44
891	Charge density wave fluctuations, heavy electrons, and superconductivity in KNi ₂ S ₂ . 2013 , 87,	38
890	Magnetic anisotropy in hole-doped superconducting Ba _{0.67} K _{0.33} Fe ₂ As ₂ probed by polarized inelastic neutron scattering. 2013 , 87,	27
889	Artificially engineered superlattices of pnictide superconductors. 2013 , 12, 392-6	62
888	Scanning-tunneling microscopy and break-junction spectroscopy on the superconducting Fe(Se, Te) single crystal. 2013 , 484, 22-26	4
887	Scanning-tunneling microscopy/spectroscopy and break-junction tunneling spectroscopy of FeSe _{1-x} Te _x . 2013 , 39, 265-273	6
886	Bismuth-based candidates for topological insulators: Chemistry beyond Bi ₂ Te ₃ . 2013 , 7, 39-49	31
885	Quasiparticle Dynamics in FeSe Superconductors Studied by Femtosecond Spectroscopy. 2013 , 26, 1213-1215	2
884	Strong enhancement of the critical current at the antiferromagnetic transition in ErNi ₂ B ₂ C single crystals. 2013 , 87,	7
883	Ternary K ₂ Zn ₅ As ₄ -type pnictides Rb ₂ Cd ₅ As ₄ and Rb ₂ Zn ₅ Sb ₄ , and the solid solution Rb ₂ Cd ₅ (As,Sb) ₄ . 2013 , 69, 455-9	13
882	Synthesis, structure and chemical bonding of CaFe _{2-x} Rh _x Si ₂ (x=0, 1.32, and 2) and SrCo ₂ Si ₂ . 2013 , 203, 232-239	9
881	Structural complexity meets transport and magnetic anisotropy in single crystalline Ln ₃₀ Ru ₄ Sn ₃₁ (Ln = Gd, Dy). 2013 , 135, 2748-58	8
880	Iron-Based Superconductors. 2013 , 19-44	
879	Structural and physical properties diversity of new CaCu ₅ -type related europium platinum borides. 2013 , 52, 4185-97	8

878	Atomic and electronic structures of single-layer FeSe on SrTiO ₃ (001): The role of oxygen deficiency. 2013 , 87,	76
877	Crystals, magnetic and electronic properties of a new ThCr ₂ Si ₂ -type BaMn ₂ Bi ₂ and K-doped compositions. 2013 , 204, 32-39	29
876	FIRST PRINCIPLES STUDY ON IRON Pnictide SUPERCONDUCTOR Ca _{0.88} Pr _{0.12} Fe ₂ As ₂ . 2013 , 27, 1350100	
875	New Member of BiS ₂ -Based Superconductor NdO _{1-x} F _x BiS ₂ . 2013 , 82, 033708	222
874	Phase diagram and electronic indication of high-temperature superconductivity at 65 K in single-layer FeSe films. 2013 , 12, 605-10	585
873	Search for superconductivity in LaNiP ₂ (P=Bi, Sb) thin films grown by reactive molecular beam epitaxy. 2013 , 484, 171-174	5
872	Ginzburg-Landau theory for multiband superconductors: Microscopic derivation. 2013 , 87,	59
871	Temperature dependence of the anisotropy parameter of the LiFeAs upper critical field in the two-band Ginzburg-Landau theory. 2013 , 58, 888-891	1
870	The flux pinning mechanism, and electrical and magnetic anisotropy in Fe _{1.04} Te _{0.6} Se _{0.4} superconducting single crystal. 2013 , 113, 17E115	15
869	Charge stripe structure in Fe _{1+x} Te by STM. 2013 , 167, 10-13	4
868	SUPERCONDUCTIVITY PHENOMENON INDUCED BY EXTERNAL IN-PLANE MAGNETIC FIELD IN (2 + 1)-DIMENSIONAL GROSS-NEVEU TYPE MODEL. 2013 , 28, 1350096	7
867	Unusual temperature dependence of band dispersion in Ba(Fe _{1-x} Ru _x) ₂ As ₂ and its consequences for antiferromagnetic ordering. <i>Physical Review Letters</i> , 2013 , 110, 067002	7-4 40
866	Magnetic ordering in tetragonal 3d metal arsenides M ₂ As (M = Cr, Mn, Fe): an ab initio investigation. 2013 , 52, 3013-21	4
865	Review on cerium intermetallic compounds: A bird's eye outlook through DFT. 2013 , 41, 55-85	25
864	Effect of Substitution and Heat Treatment Route on Polycrystalline FeSe _{0.5} Te _{0.5} Superconductors. 2013 , 26, 2369-2374	13
863	Superconductivity in Ca ₁₀ (Ir ₄ As ₈)(Fe ₂ As ₂) ₅ with Square-Planar Coordination of Iridium. 2013 , 3, 3101	23
862	Quaternary aluminum silicides grown in Al flux: RE ₅ Mn ₄ Al(23-x)Si(x) (RE = Ho, Er, Yb) and Er ₄₄ Mn ₅₅ (AlSi) ₂₃₇ . 2013 , 52, 9931-40	4
861	Crystal and magnetic structure of CaCo _{1.86} As ₂ studied by x-ray and neutron diffraction. 2013 , 88,	41

860	Doping dependence of spin excitations and its correlations with high-temperature superconductivity in iron pnictides. 2013 , 4, 2874	82
859	Syntheses, crystal structure and physical properties of new Zintl phases Ba ₃ T ₂ As ₄ (T=Zn, Cd). 2013 , 198, 6-9	18
858	New quantum matters: Build up versus high pressure tuning. 2013 , 56, 2337-2350	6
857	Comparative study of electronic structure of new superconductors (Sr, Ca)Pd ₂ As ₂ and related compound BaPd ₂ As ₂ . 2013 , 98, 24-27	5
856	Influence of spin-phonon coupling on antiferromagnetic spin fluctuations in FeSe under pressure: First-principles calculations with van der Waals corrections. 2013 , 88,	16
855	Resonant inelastic x-ray scattering at the Fe L ₃ edge of the one-dimensional chalcogenide BaFe ₂ Se ₃ . 2013 , 88,	18
854	First-principles Wannier function analysis of the electronic structure of PdTe: weaker magnetism and superconductivity. 2013 , 25, 405601	4
853	New Frontiers Opened Up Through Function Cultivation in Transparent Oxides. 2013 , 455-487	1
852	Zigzag Chain Structure Transition and Orbital Fluctuations in Ni-Based Superconductors. 2013 , 82, 094704	4
851	Evidence of two superconducting phases in Ca _{1-x} LaxFe ₂ As ₂ . 2013 , 3, 102120	18
850	Spin wave excitations in AFe _{1.5} Se ₂ (A = K, Tl): analytical study. 2013 , 25, 036004	4
849	Ultralow-Dissipative Conductivity by Dirac Fermions in BaFe ₂ As ₂ . 2013 , 82, 043709	8
848	Versatile fluoride substrates for Fe-based superconducting thin films. 2013 , 102, 142601	44
847	Magnetic scattering and electron pair breaking by rare-earth-ion substitution in BaFe ₂ As ₂ epitaxial films. 2013 , 15, 073019	18
846	Electronic phase diagram of disordered Co doped BaFe ₂ As ₂ . 2013 , 26, 025014	25
845	High Pressure Low Temperature Studies on 1-2-2 Iron-based Superconductors Using Designer Diamond Cells. 2013 , 1582, 1	
844	Weak-link behaviour observed in iron-based superconductors with thick perovskite-type blocking layers. 2013 , 26, 105020	4
843	Fermi Surface and Band Structure of (Ca,La)FeAs ₂ Superconductor from Angle-Resolved Photoemission Spectroscopy. 2013 , 30, 127402	16

842	Upper critical fields and anisotropy of $\text{Ca}_{1-x}\text{La}_x\text{Fe}_2\text{As}_2$ single crystals. 2013 , 26, 095003	8
841	Quenched Fe moment in the collapsed tetragonal phase of $\text{Ca}_{1-x}\text{Pr}_x\text{Fe}_2\text{As}_2$. 2013 , 22, 057401	11
840	Experimental Investigation of the Electronic Structure of $\text{Ca}_{0.83}\text{La}_{0.17}\text{Fe}_2\text{As}_2$. 2013 , 30, 017402	11
839	Critical current density and magnetic phase diagrams of $\text{BaFe}_{1.29}\text{Ru}_{0.71}\text{As}_2$ single crystals. 2013 , 26, 015009	11
838	Enhancement in transport critical current density of ex situ PIT Ag/(Ba, K)Fe ₂ As ₂ tapes achieved by applying a combined process of flat rolling and uniaxial pressing. 2013 , 26, 115007	20
837	Mechanochemical synthesis of pnictide compounds and superconducting $\text{Ba}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$ bulks with high critical current density. 2013 , 26, 074003	38
836	Microstructural properties of $\text{K}_{0.8}\text{Fe}_{1.6}\text{S}_2$, $\text{K}_{0.8}\text{Fe}_{1.75}\text{Se}_{2-y}\text{S}_y$ ($0 \leq y \leq 2$) and $\text{K}_{0.8}\text{Fe}_{1.5+x}\text{S}_2$ ($0 \leq x \leq 0.5$). 2013 , 103, 37010	4
835	Strange Inter-Layer Properties of $\text{Ba}(\text{Fe}_{1-x}\text{Co}_x)_2\text{As}_2$ Appearing in Ultrasonic Measurements. 2013 , 82, 114604	18
834	Superconductivity in HfCuGe_2 : A non-magnetic analog of the 1111 iron pnictides. 2013 , 101, 67001	4
833	Microstructure and transport critical current in $\text{Sr}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$ superconducting tapes prepared by cold pressing. 2013 , 26, 075003	22
832	Strikingly dissimilar effect of Mn and Zn dopants imposed on local structural distortion of $\text{Ba}_{0.5}\text{K}_{0.5}\text{Fe}_2\text{As}_2$ superconductor. 2013 , 20, 455-9	3
831	Enhancement of Critical Current Densities in (Ba,K)Fe ₂ As ₂ by 320 MeV Au Irradiation in Single Crystals and by High-Pressure Sintering in Powder-in-Tube Wires. 2013 , 6, 123101	20
830	Superconductivity under pressure in $\text{RFeAsO}_{1-x}\text{F}_x$ (R = La, Ce, Sm) by dc magnetization measurements. 2013 , 87,	15
829	Crystallographic, electronic, thermal, and magnetic properties of single-crystal SrCo_2As_2 . 2013 , 88,	52
828	Why T_c of $(\text{CaFeAs})_{10}\text{Pt}_{3.58}\text{As}_8$ is twice as high as $(\text{CaFe}_{0.95}\text{Pt}_{0.05}\text{As})_{10}\text{Pt}_3\text{As}_8$. 2013 , 88,	32
827	Distinguishing s_{\pm} and s_{++} electron pairing symmetries by neutron spin resonance in superconducting $\text{NaFe}_{0.935}\text{Co}_{0.045}\text{As}$. 2013 , 88,	42
826	Hidden T-linear scattering rate in $\text{Ba}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$ revealed by optical spectroscopy. <i>Physical Review Letters</i> , 2013 , 111, 117001	7-4 58
825	Transport and thermodynamic properties of $(\text{Ca}_{1-x}\text{La}_x)_{10}(\text{Pt}_3\text{As}_8)(\text{Fe}_2\text{As}_2)_5$ superconductors. 2013 , 87,	21

824	Metal-insulator transition in antiferromagnetic Ba _{1-x} K _x Mn ₂ As ₂ (0 ≤ x ≤ 0.4) single crystals studied by 55Mn and 75As NMR. 2013 , 88,		12
823	Enhancement of the London penetration depth in pnictides at the onset of spin-density-wave order under superconducting dome. <i>Physical Review Letters</i> , 2013 , 110, 177003	7-4	38
822	Heat capacity jump at T _c and pressure derivatives of superconducting transition temperature in the Ba _{1-x} K _x Fe ₂ As ₂ (0.2 ≤ x ≤ 1.0) series. 2013 , 87,		36
821	Superconductivity and strong intrinsic defects in LaPd _{1-x} Bi ₂ . 2013 , 88,		25
820	Influence of spin fluctuations on the thermal conductivity in superconducting Ba(Fe _{1-x} Cox) ₂ As ₂ . 2013 , 88,		9
819	High-field critical current enhancement by irradiation induced correlated and random defects in (Ba _{0.6} K _{0.4})Fe ₂ As ₂ . 2013 , 103, 202601		36
818	Can nitrogen-based cobalt pnictides exist?. 2013 , 114, 093701		
817	Strongly enhanced current densities in Sr _{0.6} K _{0.4} Fe ₂ As ₂ + Sn superconducting tapes. 2014 , 4, 4465		39
816	Superconductivity in K- and Na-doped BaFe ₂ As ₂ : What can we learn from heat capacity and pressure dependence of T _c . 2015 , 29, 1430019		3
815	An Anti CuO ₂ -type Metal Hydride Square Net Structure in Ln ₂ M ₂ As ₂ H _x (Ln=La or Sm, M=Ti, V, Cr, or Mn). 2015 , 127, 2975-2978		1
814	Theoretical study of the new zintl phases compounds K ₂ ACdSb ₂ (A=(Sr, Ba)). 2015 , 464, 9-16		
813	Anisotropy in the upper critical field of FeSe and FeSe _{0.33} Te _{0.67} single crystals. 2015 , 28, 045013		22
812	Doping effect on the physical properties of Li _x Fe _{2-x} As. 2015 , 29, 1550019		1
811	Magnetic neutron scattering studies on the Fe-based superconductor system Fe _{1+y} Te _{1-x} Se _x . 2015 , 358, 92-107		5
810	Comparison of the local structures of Ca _{0.82} La _{0.18} FeAs ₂ and Ba _{0.64} K _{0.36} Fe ₂ As ₂ pnictide superconductors using atomic pair distribution function analysis. 2015 , 84, 24-27		5
809	Synthesis of high-quality FeSe _{0.5} Te _{0.5} polycrystal using an easy one-step technique. 2015 , 644, 523-527		20
808	Calculation of the specific heat of optimally K-doped BaFe ₂ As ₂ . 2015 , 27, 335504		
807	Achievement of practical level critical current densities in Ba _{1-x} K _x Fe ₂ As ₂ /Ag tapes by conventional cold mechanical deformation. 2014 , 4, 4065		88

806	Exploration of new superconductors and functional materials, and fabrication of superconducting tapes and wires of iron pnictides. 2015 , 16, 033503	141
805	Orbital characters and electronic correlations in KCo ₂ Se ₂ . 2015 , 27, 295501	5
804	Dependences on RE of superconducting properties of transition metal co-doped (Ca,RE)FeAs ₂ with RE= La, Ce. 2015 , 518, 14-17	6
803	Investigation of J_c -Suppressing Factors in Flat-Rolled $Sr_{0.6}K_{0.4}Fe_2As_2/Fe$ Tapes Via Microstructure Analysis. 2015 , 25, 1-5	4
802	Fabrication of Diamond Based Sensors for Use in Extreme Environments. 2015 , 8, 2054-2061	5
801	An overview of the Fe-chalcogenide superconductors. 2015 , 48, 323001	19
800	Superconductivity in Hf ₅ Sb ₃ Ru _x : Are Ru and Sb a Critical Charge-Transfer Pair for Superconductivity?. 2015 , 27, 4511-4514	11
799	Structural and Magnetic Phase Transitions near Optimal Superconductivity in BaFe ₂ (As _{1-x} Px) ₂ . <i>Physical Review Letters</i> , 2015 , 114, 157002	7-4 42
798	Effects of High-Pressure Sintering on Critical Current Density in (Ba,K)Fe ₂ As ₂ PIT Wires. 2015 , 25, 1-4	12
797	Observation of mode-like features in tunneling spectra of iron-based superconductors. 2015 , 24, 077402	3
796	Co and Mn doping effect in polycrystalline (Ca,La) and (Ca,Pr)FeAs ₂ superconductors. 2015 , 28, 065001	20
795	Influence of substrate type on transport properties of superconducting FeSe _{0.5} Te _{0.5} thin films. 2015 , 28, 065005	11
794	New quaternary arsenide oxides with square planar coordination of gold(I) - structure, (197)Au Mössbauer spectroscopic, XANES and XPS characterization of Nd ₁₀ Au ₃ As ₈ O ₁₀ and Sm ₁₀ Au ₃ As ₈ O ₁₀ . 2015 , 44, 5854-66	9
793	Coexistence of Bulk Superconductivity and Magnetism in CeO _{1-x} FxBiS ₂ . 2015 , 84, 024709	49
792	Fluctuation of Diamagnetic Susceptibility in Two-band Superconductors. 2015 , 28, 319-322	2
791	First-Principle Electronic Structure Calculation of BaFe _{2-x} Co _x As ₂ (x = 0, 1, 2) Superconductor. 2015 , 28, 2249-2254	
790	Magnetic states of iron-based superconducting compounds: A comparative study with Fe ₃ Al alloy. 2015 , 66, 646-650	2
789	NMR evidence for field-induced ferromagnetism in (Li _{0.8} Fe _{0.2})OHFeSe superconductor. 2015 , 91,	10

788	Electronic structure and superconductivity of FeSe-related superconductors. 2015 , 27, 183201	56
787	Raman Spectroscopy of Ba(Fe _{1-x} Mn _x) ₂ As ₂ . 2015 , 45, 238-243	
786	Antiferromagnetic and nematic phase transitions in BaFe ₂ (As _{1-x} P _x) ₂ studied by ac microcalorimetry and SQUID magnetometry. 2015 , 91,	6
785	Crystal structure and phase diagrams of iron-based superconductors. 2015 , 58, 77-89	13
784	Modulation effect of interlayer spacing on the superconductivity of electron-doped FeSe-based intercalates. 2015 , 54, 3346-51	36
783	Atomic-Scale Derivatives of Solid-State Materials. 2015 , 27, 3549-3559	10
782	Crossover from hole- to electron-dominant regions in iron-chalcogenide superconductors induced by Te/Se substitution. 2015 , 54, 043102	4
781	Control over connectivity and magnetism of tetrahedral FeSe ₂ chains through coordination Fe-amine complexes. 2015 , 51, 5355-8	22
780	Doping effect on electronic band structure and magnetic properties of MFeAs (M = Li, Na). 2015 , 04, 1550005	1
779	Electronic structure of (Ca _{0.85} La _{0.15})FeAs ₂ . 2015 , 106, 052602	13
778	Iron-based superconductors: Current status of materials and pairing mechanism. 2015 , 514, 399-422	263
777	Structural and Magnetic Properties of Flux-Free Large FeTe Single Crystal. 2015 , 28, 2893-2897	18
776	Superconductivity and disorder effect in TlNi ₂ Se _(2-x) S _(x) compounds. 2015 , 27, 395701	1
775	Signatures of filamentary superconductivity in antiferromagnetic BaFe ₂ As ₂ single crystals. 2015 , 111, 37005	2
774	Synthesis, crystal structure and magnetism of Eu ₃ Sc ₂ O ₅ Fe ₂ As ₂ . 2015 , 70, 671-676	2
773	Magnetic and magnetotransport studies of iron-chalcogenide superconductor Fe(Se _{0.4} Te _{0.6}) _{0.82} : observation of thermally activated transport and flux jump. 2015 , 28, 115004	3
772	Application potential of Fe-based superconductors. 2015 , 28, 114005	69
771	Synthesis of Bulk FeTe _{1-x} Se _x (x = 0.1-0.5) at Ambient Pressure. 2015 , 28, 2839-2845	10

770	Superconductivity of magnetic Sm-substituted LaCo ₂ B ₂ . 2015 , 117, 17E116	1
769	Magnetic and electronic properties of CaMn ₂ Bi ₂ : A possible hybridization gap semiconductor. 2015 , 91,	17
768	Doping evolution of antiferromagnetism and transport properties in nonsuperconducting BaFe ₂ As ₂ _{1-x} Ni _x Cr _x As ₂ . 2015 , 91,	11
767	Growth of High-Quality Superconducting FeSe _{0.5} Te _{0.5} Thin Films Suitable for Angle-Resolved Photoemission Spectroscopy Measurements via Pulsed Laser Deposition. 2015 , 32, 087401	3
766	New Superconductivity Dome in LaFeAsO $1 \times F$ x Accompanied by Structural Transition. 2015 , 32, 107401	27
765	Superconductivity-induced re-entrance of the orthorhombic distortion in Ba _{1-x} K _x Fe ₂ As ₂ . 2015 , 6, 7911	114
764	Magnetic properties of AlFe ₂ B ₂ and CeMn ₂ Si ₂ synthesized by melt spinning of stoichiometric compositions. 2015 , 54, 053003	20
763	Improvement of superconductivity in Fe _{1+y} Te _{0.6} Se _{0.4} induced by annealing with CaF ₂ and SmF ₃ . 2015 , 517, 16-19	7
762	Magnetic ordering and electronic structure of the ternary iron arsenide BaFe ₂ As ₂ . 2015 , 29, 1550182	
761	The crossover from metal to semi-conductor in Cu-doped LiFeAs system. 2015 , 29, 1542023	5
760	Synchrotron X-ray diffraction study of 112-type Ca _{1-x} La _x FeAs ₂ . 2015 , 518, 10-13	2
759	Enhancement of T _c in BiS ₂ -based superconductors NdO _{0.7} F _{0.3} BiS ₂ by substitution of Pb for Bi. 2015 , 223, 40-44	7
758	Coexistence of superconductivity and antiferromagnetism in (Li _{0.8} Fe _{0.2})OHFeSe. 2015 , 14, 325-9	264
757	Synthesis, electron transport properties of transition metal nitrides and applications. 2015 , 70, 50-154	89
756	Characterization of Doped Na(Fe _{1-x} T _x)As Single Crystals with T = Pd, Ni, Cr, and Mn. 2015 , 28, 1123-1127	3
755	Distorted phosphorus and copper square-planar layers in LaCu _{1+x} P ₂ and LaCu ₄ P ₃ : synthesis, crystal structure, and physical properties. 2015 , 54, 890-7	25
754	Superconductivity in Yb-doped BaFe ₂ As ₂ . 2015 , 509, 8-10	1
753	High transport J _c in magnetic fields up to 28 T of stainless steel/Ag double sheathed Ba ₁₂₂ tapes fabricated by scalable rolling process. 2015 , 28, 012001	29

752	Robust antiferromagnetism preventing superconductivity in pressurized (Ba _{0.61} K _{0.39})Mn ₂ Bi ₂ . 2014 , 4, 7342	4
751	Estimation of Superconducting Transition Temperature T _C for Superconductors of the Doped MgB ₂ System from the Crystal Lattice Parameters Using Support Vector Regression. 2015 , 28, 75-81	35
750	New diluted magnetic semiconductor (BaK)(ZnMn) ₂ As ₂ : Electronic structure and magnetic properties. 2015 , 98, 93-98	6
749	Different doping effect on physical properties of non-magnetic Pt and Ga in CaFe ₄ As ₃ . 2015 , 623, 342-347	0
748	Local Electronic and Crystal Structure of Magnetic RCo ₂ As ₂ (R = La, Ce, Pr, Eu). 2015 , 28, 995-997	3
747	Review of superconductivity in BiS ₂ -based layered materials. 2015 , 84, 34-48	80
746	Effects of Iodine Annealing on Fe _{1+y} Te _{0.6} Se _{0.4} . 2016 , 85, 104714	3
745	Ultrafast structural dynamics of the orthorhombic distortion in the Fe-pnictide parent compound BaFe ₂ As ₂ . 2016 , 3, 023611	7
744	Effect of spacer layer on flux-pinning properties of iron-based superconductors. 2016 , 2,	
743	Theoretical Study of Upper Critical Magnetic Field (H _{C2}) in Multiband Iron Based Superconductors. 2016 , 2016, 1-10	1
742	Anisotropic Ginzburg-Landau scaling of H _{C2} and transport properties of 112-type Ca _{0.8} La _{0.2} Fe _{0.98} Co _{0.02} As ₂ single crystal. 2016 , 29, 055005	18
741	A new ferromagnetic superconductor: CsEuFe ₄ As ₄ . 2016 , 61, 1213-1220	42
740	The synthesis and characterization of 1111 type diluted ferromagnetic semiconductor (La _{1-x} Ca _x)(Zn _{1-x} Mn _x)AsO. 2016 , 28, 026003	5
739	Recent Advances in Layered Metal Chalcogenides as Superconductors and Thermoelectric Materials: Fe-Based and Bi-Based Chalcogenides. 2016 , 16, 633-51	11
738	First-principles investigation of superconductivity in the body-centred tetragonal. 2016 , 96, 2059-2073	5
737	Electronic Structure and Magnetism of the Multiband New Superconductor CaRbFe ₄ As ₄ . 2016 , 85, 124714	8
736	Distinct doping dependence of critical temperature and critical current density in Ba _{1-x} K _x Fe ₂ As ₂ superconductor. 2016 , 6, 26671	23
735	Dynamics of phonons in Sr ₃ Ir ₄ Sn ₁₃ : an experimental study by ultrafast spectroscopy measurements. 2016 , 18, 073045	5

734	Research Update: Structural and transport properties of (Ca,La)FeAs ₂ single crystal. 2016 , 4, 020702	4
733	Pressure Induced Enhancement of Superconductivity in LaRu ₂ P ₂ . 2016 , 6, 24479	7
732	Pressure-induced shift of T _c and structural transition in 122-type pnictide superconductor Ca _{0.34} Na _{0.66} Fe ₂ As ₂ . 2016 , 6, 075104	2
731	Two distinct superconducting phases in LiFeAs. 2016 , 6, 27926	11
730	Coupled multiple-mode theory for s pairing mechanism in iron based superconductors. 2016 , 6, 37508	1
729	Crystal structure instability of FeSe grains: Formation of non-superconducting phase at the grain surface. 2016 , 55, 053101	7
728	Spin anisotropy due to spin-orbit coupling in optimally hole-doped Ba _{0.67} K _{0.33} Fe ₂ As ₂ . 2016 , 94,	15
727	Optical properties of AFe ₂ As ₂ (A=Ca, Sr, and Ba) single crystals. 2016 , 94,	12
726	Two superconducting domes separated by a possible Lifshitz transition in LaFeAs _{1-x} P _x O. 2016 , 119, 083903	4
725	Scrutinizing the double superconducting gaps and strong coupling pairing in (Li _{1-x} Fe _x)OHFeSe. 2016 , 7, 10565	60
724	Effects of introducing isotropic artificial defects on the superconducting properties of differently doped Ba-122 based single crystals. 2016 , 6, 27783	15
723	Transport properties and anisotropy of superconducting (Li _{1-x} Fe _x)OHFeSe single crystals. 2016 , 29, 055003	10
722	Coexistence of Superconductivity and Spin Density Wave (SDW) in Ferropnictide Ba _{1-x} K _x Fe ₂ As ₂ . 2016 , 29, 1433-1438	2
721	The influence of the structural transition on magnetic fluctuations in NaFeAs. 2016 , 28, 27LT01	2
720	Evaluation of global and local critical current densities in 122-type iron-based superconducting tapes. 2016 , 530, 76-78	3
719	Two-Band Calculations on the Superconducting Property of SrPt ₂ As ₂ . 2016 , 183, 379-386	
718	Superconductivity at 7.8 K in the ternary LaRu ₂ As ₂ compound. 2016 , 61, 921-924	10
717	Phonons and Electron-Phonon Coupling of Newly Discovered ThCr ₂ Si ₂ -Type Superconductor BaPd ₂ As ₂ : A Comparison Study with Sr(Ca)Pd ₂ As ₂ . 2016 , 29, 1219-1225	5

716	Magnetic Field Dependence of Specific Heat in KFe_2As_2 Single Crystals. 2016 , 29, 1279-1286	6
715	$BaAl_4$ derivative phases in the sections $\{La,Ce\}Ni_2Si_2$ - $\{La,Ce\}Zn_2Si_2$: phase relations, crystal structures and physical properties. 2016 , 45, 5262-73	1
714	Electron correlation effects beyond the random phase approximation. 2016 , 30, 1642006	
713	High Pressure Studies on the Transport Properties and Upper Critical Field (H_{c2}) of Hole-Doped $Pr_{0.8}Sr_{0.2}FeAsO$ Iron Pnictides. 2016 , 29, 1761-1765	
712	Design of ternary alkaline-earth metal Sn(II) oxides with potential good p-type conductivity. 2016 , 4, 4592-4599	23
711	On the determination of hardness and elastic modulus in $BaFe_2As_2$ lamellar-like material. 2016 , 31, 1413-14227	
710	Excess of manganese in an iron-based superconductor: a first-principles study of its electronic, magnetic and superconducting properties. 2016 , 3, 056001	4
709	Crystal Growth and Characterization of Iron-Based Superconductor. 2016 , 143-191	
708	Spin waves and magnetic exchange interactions in the spin-ladder compound $RbFe_2Se_3$. 2016 , 94,	21
707	Study of vortex dynamics in single crystalline $Ba_{0.54}K_{0.46}Fe_2As_2$ superconductor using dc and ac magnetization. 2016 , 686, 938-945	2
706	High-pressure synchrotron Mössbauer and X-ray diffraction studies: Exploring the structure-related valence fluctuation in $EuNi_2P_2$. 2016 , 501, 101-105	3
705	Controlling Magnetic Ordering in $Ca_{1-x}Eu_xCo_2As_2$ by Chemical Compression. 2016 , 28, 7459-7469	7
704	Ammonia and iron cointercalated iron sulfide $(NH_3)Fe_{0.25}Fe_2S_2$: hydrothermal synthesis, crystal structure, weak ferromagnetism and crossover from a negative to positive magnetoresistance. 2016 , 6, 81886-81893	11
703	Upper critical field and quantum oscillations in tetragonal superconducting FeS . 2016 , 94,	10
702	Nodal superconductivity in FeS : Evidence from quasiparticle heat transport. 2016 , 94,	16
701	From complex magnetism ordering to simple ferromagnetism in two-dimensional $LaCrSb_3$ by hole doping. 2016 , 94,	2
700	High-Resolution Inelastic X-Ray Scattering I: Context, Spectrometers, Samples, and Superconductors. 2016 , 1643-1719	10
699	Enhancement of critical current densities in $(Ba,K)Fe_2As_2$ wires and tapes using HIP technique. 2016 , 29, 115002	37

- 698 Model study of coexistence of Jahn-Teller distortion, antiferromagnetism and superconductivity in iron pnictide superconductors. **2016**, 248, 53-59 2
- 697 Superconductivity in Ternary Pnictide SrPd₂Sb₂ Polymorphs. **2016**, 85, 043701 6
- 696 Anisotropic thermodynamic and transport properties of single-crystalline CaKFe₄As₄. **2016**, 94, 92
- 695 Anisotropic transport and optical spectroscopy study on antiferromagnetic triangular lattice EuCd₂As₂: An interplay between magnetism and charge transport properties. **2016**, 94, 18
- 694 Understanding Doping, Vacancy, Lattice Stability, and Superconductivity in K Fe Se. **2016**, 3, 1600098 24
- 693 Two-Dimensional Superconductivity Emerged at Monatomic Bi(2-) Square Net in Layered Y₂O₂Bi via Oxygen Incorporation. **2016**, 138, 11085-8 22
- 692 Electron-phonon superconductivity in the ternary phosphides BaM₂P₂ (M=Ni,Rh,and Ir). **2016**, 94, 9
- 691 Ultrafast dynamics of quasiparticles and coherent acoustic phonons in slightly underdoped (BaK)Fe₂As₂. **2016**, 6, 25962 2
- 690 Vortex phase transition and anisotropy behavior of optimized (Li_{1-x}FexOH)FeSe single crystals. **2016**, 29, 105015 13
- 689 Fluctuation conductivity and possible pseudogap state in FeAs-based superconductor EuFeAsO_{0.85}F_{0.15}. **2016**, 3, 076001 14
- 688 Magnetic structures of the Eu and Cr moments in EuCr₂As₂: Neutron diffraction study. **2016**, 94, 10
- 687 Electronic Structures of the Superconducting Single-Layer FeSe/SrTiO₍₃₎ Films. **2016**, 81-93
- 686 Electron-deficient copper pnictides: A₂Mg₃Cu₉Pn₇ (A = Sr, Eu; Pn = P, As) and Eu₅Mg_{2.39}Cu_{16.61}As₁₂. **2016**, 3, 1264-1271 8
- 685 Vortices in high-performance high-temperature superconductors. **2016**, 79, 116501 100
- 684 Tailoring the critical current properties in Cu-sheathed Sr_{1-x}K_xFe₂As₂superconducting tapes. **2016**, 29, 095006 7
- 683 Phase Diagram and High T_c Superconductivity in Single-Layer FeSe Films. **2016**, 95-113
- 682 Irreversibility Line Measurement and Vortex Dynamics in High Magnetic Fields in Ni- and Co-Doped Iron Pnictide Bulk Superconductors. **2016**, 29, 2735-2742 2
- 681 Pnictide-height dependent ferromagnetism in CuFeAs and CuFeSb. **2016**, 686, 38-42 3

680	Structure, magnetization, specific heat, and microwave properties of $K_xFe_{1-x}Se_2$. 2016 , 29, 085015	2
679	Evidence for defect-induced superconductivity up to 49 K in $(Ca_{1-x}R_x)Fe_2As_2$. 2016 , 93,	20
678	Nonmonotonic pressure evolution of the upper critical field in superconducting FeSe. 2016 , 93,	35
677	Fermi surface reconstruction in FeSe under high pressure. 2016 , 93,	34
676	Magnetotransport study of the pressure-induced antiferromagnetic phase in FeSe. 2016 , 93,	20
675	Role of hydrogen in the electronic properties of CaFeAsH-based superconductors. 2016 , 93,	4
674	Effect of impurity substitution on band structure and mass renormalization of the correlated $FeTe_{0.5}Se_{0.5}$ superconductor. 2016 , 93,	5
673	Comparative study of thermodynamic properties near the structural phase transitions in $Sr_3Rh_4Sn_{13}$ and $Sr_3Ir_4Sn_{13}$. 2016 , 93,	12
672	Ab initio theory of iron-based superconductors. 2016 , 94,	24
671	Spin Ferroquadrupolar Order in the Nematic Phase of FeSe. <i>Physical Review Letters</i> , 2016 , 116, 247203 7.4	26
670	Superconductivity in Layered Systems of Dirac Electrons. 2016 , 97-122	
669	Dynamical screening in correlated electron systems-from lattice models to realistic materials. 2016 , 28, 383001	43
668	Experimental and Theoretical Studies on the Crystal Structure of Ternary Copper Arsenides $A_2Cu_3As_3$ (A = Sr, Eu). 2016 , 2016, 3774-3780	4
667	Polymorphism in Zintl Phases ACd_4Pn_3 : Modulated Structures of $NaCd_4Pn_3$ with Pn = P, As. 2016 , 55, 7764-76	4
666	The effects of post-growth annealing on the structural and magnetic properties of $BaFe_2As_2$. 2016 , 28, 115702	4
665	Collective mode at Lifshitz transition in iron-pnictide superconductors. 2016 , 28, 375701	5
664	Theoretical investigation of superconductivity in $SrPd_2Ge_2$, $SrPd_2As_2$, and $CaPd_2As_2$. 2016 , 93,	4
663	Nearly critical spin and charge fluctuations in KFe_2As_2 observed by high-pressure NMR. 2016 , 93,	16

662	Absence of nematic order in the pressure-induced intermediate phase of the iron-based superconductor Ba _{0.85} K _{0.15} Fe ₂ As ₂ . 2016 , 93,	9
661	Effects of single- and multi-substituted Zn ions in doped 122-type iron-based superconductors. 2016 , 93,	1
660	Superconductivity and ferromagnetism in hole-doped RbEuFe ₄ As ₄ . 2016 , 93,	68
659	Doping evolution of the superconducting gap structure in the underdoped iron arsenide Ba _{1-x} K _x Fe ₂ As ₂ revealed by thermal conductivity. 2016 , 93,	13
658	Effect of external magnetic field on the coexistence of superconductivity and JT distortion in iron pnictides. 2016 , 248, 110-114	6
657	Superconductivity and multiple pressure-induced phases in BaPt ₂ As ₂ . 2016 , 94,	6
656	Superconductivity in layered ZrP ₂ Sex with PbFCl-type structure. 2016 , 29, 055004	10
655	Pinning force scaling analysis of Fe-based high-T _c superconductors. 2016 , 30, 1630017	18
654	Hubbard interactions in iron-based pnictides and chalcogenides: Slater parametrization, screening channels, and frequency dependence. 2016 , 94,	20
653	Suppression of superconductivity and structural phase transitions under pressure in tetragonal FeS. 2016 , 6, 31077	10
652	Spin excitations in hole-overdoped iron-based superconductors. 2016 , 6, 33303	11
651	High-temperature superconductivity in iron pnictides and chalcogenides. 2016 , 1,	246
650	Experimental and theoretical identification of the Fe(vii) oxidation state in FeO. 2016 , 18, 31125-31131	11
649	Emergence of superconductivity in (NH ₃) _y M _x MoSe ₂ (M: Li, Na and K). 2016 , 6, 29292	9
648	Evolution of superconductivity and magnetism in BiS ₂ -based layered compounds. 2016 , 2,	5
647	Optical study of charge dynamics in CaCo ₂ As ₂ . 2016 , 25, 057201	
646	Interrogating the superconductor Ca(PtAs)(FePtAs) Layer-by-layer. 2016 , 6, 35365	6
645	Intrinsic and extrinsic pinning in NdFeAs(O,F): vortex trapping and lock-in by the layered structure. 2016 , 6, 36047	30

- 644 Angle-resolved spectroscopy study of Ni-based superconductor SrNi₂As₂. **2016**, 94, 4
- 643 Anomalous magneto-elastic and charge doping effects in thallium-doped BaFe₂As₂. **2016**, 6, 21660 4
- 642 Raman scattering studies on the collapsed phase of CaCo₂As₂. **2016**, 25, 067803
- 641 Neutron diffraction study on heavy-fermion compound CeCrGe₃. **2016**, 94, 2
- 640 Superconductivity in KCa₂Fe₄As₄F₂ with Separate Double Fe₂As₂ Layers. **2016**, 138, 7856-9 67
- 639 Superconductivity in Sm-doped CaFe₂As₂ single crystals. **2016**, 25, 067403
- 638 Electronic structures and magnetism of YM₂Ge₂ (M = Mn, Ru): Ge-height dependent magnetic ordering in YFe₂Ge₂. **2016**, 121, 48-53 4
- 637 Critical current densities and flux creep rates in near optimally doped BaFe₂(δ)RuAs₂ ($\delta \approx 0.7$) single crystals. **2016**, 231-232, 26-30 4
- 636 Effects of rolling deformation processes on the properties of Ag-sheathed Sr_{1-x}K_xFe₂As₂ superconducting tapes. **2016**, 525-526, 94-99 10
- 635 Quench Behaviors of Monofilament Iron-Based Sr_{0.6}K_{0.4}Fe₂As₂ Tape With Ag Sheath at Different Temperatures. **2016**, 26, 1-6 4
- 634 Electronic structures and magnetism of LaFe₂Ge₂ and LaFe₂Si₂: First-principles studies. **2016**, 525-526, 72-77 2
- 633 Thermal expansion behaviour and phase stability of AFe₂As₂ (A = Ca, Sr and Eu) using powder diffraction technique. **2016**, 86, 1369-1381
- 632 YPd₂Al and YPd₂Zn with LiCu₂Sn Type Structure. **2016**, 642, 627-630 2
- 631 The synthesis and magnetic structure of the iron selenide Ba_{0.8}Fe₂Se₂. **2016**, 667, 012003
- 630 Superconductivity at 3.85 K in BaPd₂As₂ with the ThCr₂Si₂-type structure. **2016**, 113, 17002 18
- 629 Critical spin fluctuations and the origin of nematic order in Ba(Fe_{1-x}Cox)₂As₂. **2016**, 12, 560-563 47
- 628 Solid state synthesis and characterization of bulk FeTe_{0.5}Se_{0.5}superconductors. **2016**, 667, 012006 2
- 627 Flux pinning and relaxation in FeSe_{0.5}Te_{0.5}single crystals. **2016**, 29, 035006 15

626	Influence of the electronic structure on the transport properties of some iron pnictides. 2016 , 17, 164-187	14
625	Improvement in granularity of NdFeAsO _{0.8} F _{0.2} superconductor through Ag _x doping ($x = 0.0\text{--}0.3$). 2016 , 520, 1-7	1
624	Progress in nonmagnetic impurity doping studies on Fe-based superconductors. 2016 , 29, 053001	5
623	The New Superconductor tP-SrPd ₂ Bi ₂ : Structural Polymorphism and Superconductivity in Intermetallics. 2016 , 55, 3203-5	9
622	Nodeless superconducting gaps in Ca ₁₀ (Pt ₄ -As ₈)(Fe _{1-x} Pt _x) ₂ As ₂) ₅ probed by quasiparticle heat transport. 2016 , 59, 1	0
621	Hydrogen-modified superconductors: A review. 2016 , 44, 20-34	13
620	Coexistence of clean- and dirty-limit superconductivity in LiFeAs. 2016 , 93,	10
619	Fabrication of Nb-sheathed FeSe _{0.5} Te _{0.5} tape by an ex-situ powder-in-tube method. 2016 , 664, 218-222	7
618	Effect of Cooling Rate on Structure, Composition, and Superconducting Properties of FeTe _{0.6} Se _{0.4} Prepared by Self-Flux Technique. 2016 , 29, 1187-1192	2
617	A first principles study on newly proposed (Ca/Sr/Ba)Fe ₂ Bi ₂ compounds with their parent compounds. 2016 , 96, 511-523	2
616	Charge nematicity and electronic Raman scattering in iron-based superconductors. 2016 , 17, 113-139	69
615	Nanoscale Inhomogeneous Superconductivity in Fe(Te _{1-x} Sex) Probed by Nanostructure Transport. 2016 , 10, 429-35	5
614	Thin film growth of CaFe ₂ As ₂ by molecular beam epitaxy. 2016 , 29, 015013	7
613	Structural transition and superconductivity in hydrothermally synthesized FeX (X = S, Se). 2016 , 52, 194-7	47
612	Effect of metal (Zn/In/Pb) additions on the microstructures and superconducting properties of Sr _{1-x} K _x Fe ₂ As ₂ tapes. 2016 , 112, 128-131	18
611	The phase diagrams of iron-based superconductors: Theory and experiments. 2016 , 17, 5-35	35
610	Dimensionality of the oxidic layers in pnictide oxides and transition metal p-element ordering in tetrelides and pnictides. 2017 , 254, 1600084	0
609	High-temperature superconductivity in iron-based compounds. 2017 , 254, 1770206	

608	Growth, magnetic and transport properties of Li-doped SrFe ₂ As ₂ single crystals. 2017 , 254, 1600118	
607	A calorimetric investigation of RbFe ₂ As ₂ single crystals. 2017 , 254, 1600208	9
606	Evolution of superconducting gap anisotropy in hole-doped 122 iron pnictides. 2017 , 254, 1600350	1
605	Iron arsenide superconductors (CaFeAs) ₁₀ MnAs ₈ with metallic interlayers (M = Pt, Pd; n = 3, 4). 2017 , 254, 1600417	6
604	Observation of the weak electronic correlations in KFeCoAs (3d): an isoelectronic to the parent compounds of 122 series of iron pnictides BaFeAs. 2017 , 29, 085503	4
603	First-Order Phase Transition in BaNiGe and the Influence of the Valence Electron Count on Distortion of the ThCrSi Structure Type. 2017 , 56, 1173-1185	5
602	Superconductivity in the ternary iridium-arsenide BaIr ₂ As ₂ . 2017 , 30, 035007	9
601	Ab initio study of doping effects in the 42214 compounds: A new family of layered iron-based superconductors. 2017 , 95,	1
600	Rearrangement of van der Waals stacking and formation of a singlet state at T = 90 K in a cluster magnet. 2017 , 4, 481-490	17
599	Synthesis, Crystal Structure and Superconductivity in RbLn ₂ Fe ₄ As ₄ O ₂ (Ln = Sm, Tb, Dy, and Ho). 2017 , 29, 1805-1812	27
598	First-principles investigations on structure stability, elastic properties, anisotropy and Debye temperature of tetragonal LiFeAs and NaFeAs under pressure. 2017 , 104, 243-251	26
597	Structural and Superconductivity Properties of BaFe ₂ −Pt _x As ₂ . 2017 , 30, 1145-1151	6
596	Charge Density Wave in the New Polymorphs of RERuGe (RE = Pr, Sm, Dy). 2017 , 139, 4130-4143	19
595	G-type magnetic order in ferropnictide CuxFe _{1−x} As induced by hole doping on As sites. 2017 , 95,	1
594	Superconductivity at 35 K by self doping in RbGdFeAsO. 2017 , 29, 11LT01	17
593	Theoretical Study of Electronic and Magnetic Properties of Newly Derived Iron-Pnictide Compound. 2017 , 30, 2043-2051	1
592	Eisenbasierte Vielfalt. 2017 , 48, 70-77	3
591	Enhanced transport critical current density in Sn-added SmFeAsO _{1−x} F _x tapes prepared by the PIT method. 2017 , 30, 065004	6

- 590 Selenium doping NaCl-type superconductor: $\text{SnAs}_{1-x}\text{Se}_x$ ($x=0\text{--}0.13$). **2017**, 252, 106-110 3
- 589 Transport critical current density of high-strength $\text{Sr}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2/\text{Ag}/\text{Monel}$ composite conductors. **2017**, 30, 075010 11
- 588 Observation of reversible critical current performance under large compressive strain in $\text{Sr}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$ tapes. **2017**, 30, 07LT01 8
- 587 Physical properties of the body-centred tetragonal. **2017**, 97, 1866-1883 3
- 586 ThCr_2Si_2 -type Ru-based superconductors LaRu_2M_2 ($\text{M}=\text{P}$ and As): An ab-initio investigation. **2017**, 695, 2827-2834 15
- 585 Effect of Co doping and hydrostatic pressure on SrFe_2As_2 . **2017**, 254, 1600154 1
- 584 The synthesis and magnetic properties of BaFe_2Se_3 single crystals. **2017**, 7, 30433-30438 4
- 583 A multiband Eliashberg-approach to iron-based superconductors. **2017**, 254, 1600828 7
- 582 Observation of a bi-critical point between antiferromagnetic and superconducting phases in pressurized single crystal $\text{Ca}_{0.73}\text{La}_{0.27}\text{FeAs}_2$. **2017**, 62, 857-862 7
- 581 Novel 122-type Ir-based superconductors BaIr_2M_2 ($\text{M}=\text{P}$ and As): A density functional study. **2017**, 711, 327-334 14
- 580 Evidence of anisotropic phase correlations above T_c in single crystalline $\text{Ba}_{0.54}\text{K}_{0.46}\text{Fe}_2\text{As}_2$. **2017**, 512, 54-57
- 579 Discovery of a novel 112-type iron-pnictide and La-doping induced superconductivity in $\text{Eu}_{1-x}\text{La}_x\text{FeAs}_2$ ($x = 0\text{--}0.15$). **2017**, 62, 218-221 14
- 578 Electronic structure and magnetism of $\text{RbGd}_2\text{Fe}_4\text{As}_4\text{O}_2$. **2017**, 708, 392-396 3
- 577 High-temperature superconductivity in one-unit-cell FeSe films. **2017**, 29, 153001 40
- 576 New ternary superconducting compound LaRu_2As_2 : Physical properties from density functional theory calculations. **2017**, 26, 037103 29
- 575 Hole doping and pressure effects on the II-II-V-based diluted magnetic semiconductor $(\text{Ba}_{1-x}\text{K}_x)(\text{Zn}_{1-y}\text{Mn}_y)_2\text{As}_2$. **2017**, 95, 19
- 574 NMR investigation of spin fluctuations in the itinerant-electron magnetic compound $\text{Sr}_{1-x}\text{Ca}_x\text{Co}_2\text{P}_2$. **2017**, 95, 1
- 573 Complex magnetic phase diagram with multistep spin-flop transitions in $\text{La}_{0.25}\text{Pr}_{0.75}\text{Co}_2\text{P}_2$. **2017**, 95, 3

572	Superconducting Properties of 100-m Class Sr _{0.6} K _{0.4} Fe ₂ As ₂ Tape and Pancake Coils. 2017 , 27, 1-5	35
571	Thermally activated flux flow in superconducting epitaxial FeSe _{0.6} Te _{0.4} thin film. 2017 , 7, 16-20	17
570	Optimization of Deposition Conditions to Grow High-Quality FeSe _{0.6} Te _{0.4} Thin Films. 2017 , 27, 1-5	5
569	Crystal structure and superconductivity at about 30 K in A ₂ Ca ₂ Fe ₄ As ₄ F ₂ (A = Rb, Cs). 2017 , 60, 83-89	38
568	Synthesis, crystal structure and physical properties of a new oxypnictide Ba ₂ Ti ₂ Cr ₂ As ₄ O containing [Ti ₂ As ₂ O] ₂ and [Cr ₂ As ₂] ₂ layers. 2017 , 694, 1149-1153	4
567	Key Factors for Insulator-Superconductor Transition in FeSe Thin Films by Electric Field. 2017 , 27, 1-5	10
566	Fishtail Effect and the Upper Critical Field in a Superconducting Ca _{1-x} (Pt _{4-x} As _{8-x})(Fe _{2-x} Pt _x As ₂) ₅ . 2017 , 30, 2963-2969	0
565	Magnetism and thermodynamics of the anisotropic frustrated spin-1 Heisenberg antiferromagnet on a body-centered cubic lattice. 2017 , 251, 79-87	5
564	Compressed tetragonal phase in XFe ₂ As ₂ (X=Na, K, Rb, Cs) and in the alloy Na _{0.5} K _{0.5} Fe ₂ As ₂ . 2017 , 95,	6
563	High-Temperature Superconductors. 2017 , 1-1	6
562	Magnetic fluctuations and superconducting properties of CaKFe ₄ As ₄ studied by As ⁷⁵ NMR. 2017 , 96,	34
561	The Interface Structure of FeSe Thin Film on CaF Substrate and its Influence on the Superconducting Performance. 2017 , 9, 37446-37453	12
560	Pressure-induced half-collapsed-tetragonal phase in CaKFe ₄ As ₄ . 2017 , 96,	29
559	Magnetic properties of single crystal EuPt ₂ As ₂ . 2017 , 728, 959-965	1
558	Doping dependence of the vortex dynamics in single-crystal superconducting NaFe _{1-x} CoxAs. 2017 , 30, 105006	5
557	The influence of the in-plane lattice constant on the superconducting transition temperature of FeSe _{0.7} Te _{0.3} thin films. 2017 , 7, 065015	8
556	Transport current density at temperatures up to 25 K of Cu/Ag composite sheathed 122-type tapes and wires. 2017 , 30, 115007	14
555	Many Body Perturbation Theory, Dynamical Mean Field Theory and All That. 2017 , 119-157	0

554	Structure determination in thin film $\text{Ba}_{1-x}\text{La}_x\text{Fe}_2\text{As}_2$: Relation between the FeAs_4 geometry and superconductivity. 2017 , 96,	4
553	Picoscale materials engineering. 2017 , 2,	33
552	Fermi surface and effective masses in photoemission response of the $(\text{Ba K})\text{FeAs}$ superconductor. 2017 , 7, 8787	12
551	Electronic structure of ThRu_2Si_2 studied by angle-resolved photoelectron spectroscopy: Elucidating the contribution of U 5f states in URu_2Si_2 . 2017 , 96,	6
550	Investigation of the substitution at the anionic positions BaT_2As_2 (T = Fe, Ni) superconductors. 2017 , 62, 1026-1031	
549	Pressure-induced transition to the collapsed tetragonal phase in BaCr_2As_2 . 2017 , 95,	10
548	Mechanism of the high transition temperature for the 1111-type iron-based superconductors RFeAsO (R=rareearth): Synergistic effects of local structures and 4f electrons. 2017 , 96,	4
547	Evidence of Mott physics in iron pnictides from x-ray spectroscopy. 2017 , 96,	20
546	Facile Synthesis, Magnetic and Electric Characterization of Mixed Valence LaKAMnTiO (A = Sr and Ba) Perovskites. 2017 , 56, 10404-10411	8
545	Ising-type Magnetic Anisotropy in CePdAs . 2017 , 7, 7338	4
544	Arsenic chemistry of iron-based superconductors and strategy for novel superconducting materials. 2017 , 2, 450-461	4
543	Point defect induced giant enhancement of flux pinning in Co-doped $\text{FeSe}_{0.5}\text{Te}_{0.5}$ superconducting single crystals. 2017 , 7, 115016	4
542	Band structure and Fermi surfaces of the reentrant ferromagnetic superconductor $\text{Eu}(\text{Fe}_{0.86}\text{Ir}_{0.14})_2\text{As}_2$. 2017 , 96,	
541	Collapsed tetragonal phase transition in LaRu_2P_2 . 2017 , 96,	7
540	Revisiting the Electron-Doped SmFeAsO : Enhanced Superconductivity up to 58.6 K by Th and F Codoping. 2017 , 34, 077401	5
539	Direct response of the spin-density wave transition and superconductivity to anion height in SrFe_2As_2 . 2017 , 96,	1
538	Synthesis, Crystal Structure, and Magnetic Properties of RMgSiPn (R = La, Ce; Pn = P, As). 2017 , 56, 8348-8354	6
537	Crystal growth and phase diagram of 112-type iron pnictide superconductor $\text{Ca}_{1-x}\text{La}_x\text{Fe}_2\text{As}_2$. 2017 , 30, 095002	13

536	Possible superconductivity in the electron-doped chromium pnictide LaOCrAs. 2017 , 95,	5
535	High transport J_c in stainless steel/Ag-Sn double sheathed Ba122 tapes. 2017 , 30, 095012	16
534	Absence of magnetism in the superconductor Ba ₂ Ti ₂ Fe ₂ As ₄ O: Insights from inelastic neutron scattering measurements and ab initio calculations of phonon spectra. 2017 , 95,	5
533	Preparation of new superconductors by metal doping of two-dimensional layered materials using ethylenediamine. 2017 , 96,	11
532	Driving the Europium Valence State in EuCo ₂ As ₂ by External and Internal Impact. 2017 , 30, 75-78	6
531	The Third-Order Elastic Moduli and Debye Temperature of SrFe ₂ As ₂ and BaFe ₂ As ₂ : a First-Principles Study. 2017 , 30, 1749-1756	7
530	Unconventional superconductivity. 2017 , 66, 75-196	89
529	Phase diagram and transport properties of Sb-doped Ca _{0.88} La _{0.12} Fe ₂ As ₂ single crystals. 2017 , 12, 1	1
528	Magnetic AC Loss of Monofilament Sr _{0.6} K _{0.4} Fe ₂ As ₂ /Ag Tape. 2017 , 30, 701-706	2
527	Combined experimental and theoretical studies of pressure effects in La ₂ Sb. 2017 , 254, 1600168	2
526	Superconductivity and Dirac fermions in 112-phase pnictides. 2017 , 254, 1600163	15
525	Direct measurement of the temperature dependence of the in-plane magnetic penetration depth in optimally doped BaFe ₂ (As _{1-x} P _x) ₂ single crystals. 2017 , 533, 59-62	
524	Structural instability and superconductivity in the solid solution SrNi ₂ (P _{1-x} G _x) ₂ . 2017 , 254, 1600351	3
523	The Pt Dopant Effect on Physical Properties of Ba _{0.2} La _{0.8} Fe ₂ As ₂ . 2017 , 30, 3285-3288	5
522	Fabrication of (Ba,K)Fe ₂ As ₂ tapes by ex situ PIT process using Ag-Sn alloy single sheath. 2017 , 30, 015012	17
521	Low-energy microscopic models for iron-based superconductors: a review. 2017 , 80, 014503	86
520	Iron pnictide thin films: Synthesis and physics. 2017 , 254, 1600341	10
519	Simultaneously scanning two connected tips in a scanning tunneling microscope. 2017 , 121, 214501	

518	Effect of proton irradiation on the fluctuation-induced magnetoconductivity of FeSe _{1-x} Te thin films. 2017 , 19, 093004	8
517	Spin excitation anisotropy in the optimally isovalent-doped superconductor BaFe ₂ (As _{0.7} P _{0.3}) ₂ . 2017 , 96,	11
516	Doping evolution of the anisotropic upper critical fields in the iron-based superconductor Ba _{1-x} K _x Fe ₂ As ₂ . 2017 , 96,	2
515	Deposition and properties of Fe(Se,Te) thin films on vicinal CaF ₂ substrates. 2017 , 30, 115008	7
514	Monoclinic 122-Type BaIr ₂ Te ₂ with a Channel Framework: A Structural Connection between Clathrate and Layered Compounds. 2017 , 10,	3
513	Comparative Review on Thin Film Growth of Iron-Based Superconductors. 2017 , 2, 25	13
512	Crystal Growth Techniques for Layered Superconductors. 2017 , 2, 32	2
511	(Li _{1-x} F _x)OHFeSe Superconductors: Crystal Growth, Structure, and Electromagnetic Properties. 2017 , 7, 167	4
510	Critical Slowing Down of Quadrupole and Hexadecapole Orderings in Iron Pnictide Superconductor. 2017 , 86, 064706	7
509	Carrier-Doping Dependence of Critical Current Density in Ba _{1-x} K _x Fe ₂ As ₂ Single Crystals and Superconducting Wires. 2017 , 871, 012060	4
508	Superconductivity in 122-Type Pnictides without Iron. 2017 , 2, 28	8
507	Magnetic properties of exchange-enhanced Pauli paramagnetic metals AeCo ₂ P ₂ (Ae= Sr, Ba). 2017 , 868, 012015	1
506	FeTe _{0.6} Se _{0.4} bulk single crystals with high critical current densities under magnetic fields. 2017 , 871, 012064	0
505	Critical Current Density in the Heterogeneous High-T _c Superconductor Ca _{1-x} La _x Fe ₂ As ₂ . 2018 , 72, 515-521	
504	Correlation, temperature and disorder: Recent developments in the one-step description of angle-resolved photoemission. 2018 , 740, 1-34	21
503	Impact of concomitant Y and Mn substitution on superconductivity in La _{1-x} Y _y Fe _{1-x} Mn _x AsO _{0.89} F _{0.11} . 2018 , 97,	6
502	Recent progress in thin-film growth of Fe-based superconductors: superior superconductivity achieved by thin films. 2018 , 31, 093001	32
501	Observation of direct evolution from antiferromagnetism to superconductivity in Cu _{1-x} Li _x FeAs (0 ≤ x ≤ 1.0). 2018 , 97,	1

500	Synthesis, Structure, and Properties of the Layered Oxyselenide BaCuOCuSe. 2018 , 57, 5108-5113	3
499	SrFe _{1-x} MoxO ₂ + δ parasitic ferromagnetism in an infinite-layer iron oxide with defect structures induced by interlayer oxygen. 2018 , 5, 046106	
498	Structural and electrical studies of olivine LiNi _{1-x} (Co _{0.5} Mn _{0.5})xPO ₄ (0 \leq x \leq 1) at high temperature. 2018 , 24, 3733-3744	6
497	Newly synthesized MgAl ₂ Ge ₂ : A first-principles comparison with its silicide and carbide counterparts. 2018 , 117, 139-147	18
496	Formation of As-As Interlayer Bonding in the cT Phase of EuFe ₂ As ₂ and CeFeAsO Under Pressure from First Principle. 2018 , 31, 3111-3117	1
495	Fermi Surface with Dirac Fermions in CaFeAsF Determined via Quantum Oscillation Measurements. 2018 , 8,	16
494	The cooling rate effect on structure and flux pinning force of FeTeSe single crystal deposited by self-flux method. 2018 , 29, 6477-6483	6
493	Superconductivity in a New 1144-Type Family of (La,Na)AF ₂ As (A = Rb or Cs). 2018 , 9, 868-873	13
492	Pt-Bi Antibonding Interaction: The Key Factor for Superconductivity in Monoclinic BaPtBi. 2018 , 57, 1698-1701	4
491	Collapsed tetragonal phase as a strongly covalent and fully nonmagnetic state: Persistent magnetism with interlayer As-As bond formation in Rh-doped Ca _{0.8} Sr _{0.2} Fe ₂ As ₂ . 2018 , 97,	5
490	Unconventional superconductivity in iron pnictides: Magnon mediated pairing. 2018 , 545, 18-25	3
489	An Unusual Triple-Decker Variant of the Tetragonal BaAl-Structure Type: Synthesis, Structural Characterization, and Chemical Bonding of SrCdGe and EuCdGe. 2018 , 57, 833-842	6
488	Protonation induced high- T _c phases in iron-based superconductors evidenced by NMR and magnetization measurements. 2018 , 63, 11-16	34
487	Advanced first-principles theory of superconductivity including both lattice vibrations and spin fluctuations: The case of FeB ₄ . 2018 , 97,	17
486	Development of superconducting joints between iron-based superconductor tapes. 2018 , 31, 06LT02	8
485	Improvements of fabrication processes and enhancement of critical current densities in (Ba,K)Fe ₂ As ₂ HIP wires and tapes. 2018 , 31, 055016	41
484	Modeling pseudo-elastic behavior in small-scale ThCr ₂ Si ₂ -type crystals. 2018 , 150, 86-95	4
483	Cr doping effects on structure and superconductivity of Ba ₂ Ti ₂ Fe ₂ As ₄ O. 2018 , 745, 460-466	3

- 482 Robust s_{\pm} pairing in $\text{CaK}(\text{Fe}_{1-x}\text{Ni}_x)_4\text{As}_4$ ($x=0$ and 0.05) from the response to electron irradiation. **2018**, 97, 13
- 481 Antiphase Fermi-surface modulations accompanying displacement excitation in a parent compound of iron-based superconductors. **2018**, 97, 6
- 480 Anisotropic two-gap superconductivity and the absence of a Pauli paramagnetic limit in single-crystalline $\text{LaO}_{0.5}\text{F}_{0.5}\text{BiS}_2$. **2018**, 97, 10
- 479 Influences of Tape Thickness on the Properties of Ag-Sheathed $\text{Sr}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ Superconducting Tapes. **2018**, 28, 1-5 8
- 478 Upper critical fields in $\text{Ba}_2\text{Ti}_2\text{Fe}_2\text{As}_4\text{O}$ single crystals: Evidence for dominant Pauli paramagnetic effect. **2018**, 97, 1
- 477 Solids, liquids, and gases under high pressure. **2018**, 90, 216
- 476 Synthesis and characterization of iron based superconductor Nd_{1111} . **2018**, 549, 116-118 5
- 475 Theoretical Study of Superconducting Gap Parameters, Density of States, and Condensation Energy of Two-Band Iron-Based Superconductor $\text{BaFe}_2(\text{As}_{1-x}\text{P}_x)_2$. **2018**, 31, 37-45 1
- 474 Electronic, Transport, and Magnetic Properties of La-Doped $\text{Ba}_{1-x}\text{Fe}_{1.9}\text{Pt}_{0.1}\text{As}_2$ ($x = 0, 0.4, 0.6, 0.8$) Compounds. **2018**, 31, 47-53 3
- 473 Recent advances in iron-based superconductors toward applications. **2018**, 21, 278-302 200
- 472 First principles predictions of electronic and elastic properties of BaPb_2As_2 in the ThCr_2Si_2 -type structure. **2018**, 544, 18-21 1
- 471 Possible interface superconductivity in rare-earth-doped $\text{CaFe}_{\{2\}}\text{As}_{\{2\}}$ and undoped $\text{CaFe}_{\{2\}}\text{As}_{\{2\}}$. **2018**, 5, 103-109 2
- 470 Pressure induced superconductivity in very lightly doped $\text{LaFeAsO}_{0.975}\text{F}_{0.025}$. **2018**, 536, 827-829 1
- 469 Effect of biaxial cold pressure densification (BCPD) on $\text{Ba}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$ round wire using optimized precursor. **2018**, 44, 4457-4461 4
- 468 Electronic Properties and Fermi Surface for New Layered High-Temperature Superconductors $\text{CaAFe}_4\text{As}_4$ ($A = \text{K}, \text{Rb}, \text{and Cs}$): FLAPW-GGA Calculations. **2018**, 31, 1683-1692 10
- 467 Synthesis and Superconductivity of $\text{Ba}_2\text{Ti}_2(\text{Fe}_{1-x}\text{Cr}_x)_2\text{As}_4\text{O}$. **2018**, 31, 1701-1706
- 466 In situ annealing effects on magnetic properties and variable-range hopping of iron-based ladder material BaFe_2S_3 . **2018**, 61, 1 3
- 465 Effect of electron correlations on spin excitation bandwidth in $\text{Ba}_{0.75}\text{K}_{0.25}\text{Fe}_2\text{As}_2$ as seen via time-of-flight inelastic neutron scattering. **2018**, 97, 5

464	Disappearance of the Itinerant Electronic Ferromagnetism in Layered Compound Sr ₂ VO ₃ CoAs due to Self-Electron-Doping Effect. 2018 , 87, 094711	1
463	Fabrication and characterization of CaKFe ₄ As ₄ round wires sintered at high pressure. 2018 , 11, 123101	18
462	Effect of non-magnetic rare earth substitution for Zr on mixed anion Zr(P, Se) ₂ superconductors. 2018 , 1054, 012002	4
461	Physical properties of ThCr ₂ Si ₂ -type Rh-based compounds ARh ₂ Ge ₂ (A = Ca, Sr, Y and Ba): DFT based first-principles investigation. 2018 , 32, 1850357	3
460	Progress of novel diluted ferromagnetic semiconductors with decoupled spin and charge doping: Counterparts of Fe-based superconductors. 2018 , 27, 097502	10
459	Magnetism and superconductivity in Eu(Fe _{1-x} Ni _x)As ₂ (x = 0, 0.04). 2018 , 61, 1	6
458	A single-crystal neutron diffraction study on magnetic structure of CsCo ₂ Se ₂ . 2018 , 27, 117401	
457	Superconductivity in LaPd ₂ Bi ₂ with CaBe ₂ Ge ₂ -type structure. 2018 , 61, 1	4
456	A Triplet Resonance in Superconducting Fe _{1.03} Se _{0.4} Te _{0.6} . 2018 , 35, 127401	0
455	Superconductivity in a 122-type Fe-based compound (La,Na,K)FeAs. 2018 , 8, 16827	0
454	Correlation-driven Lifshitz transition in electron-doped iron selenides (Li,Fe)OHFeSe. 2018 , 98,	2
453	Multigap Superconductivity in RbCa ₂ Fe ₄ As ₄ F ₂ Investigated Using μ SR Measurements. 2018 , 87, 124705	10
452	Microscopic origin of Cooper pairing in the iron-based superconductor Ba _{1-x} K _x Fe ₂ As ₂ . 2018 , 3,	10
451	Temperature-dependent local structure and superconductivity of BaPd ₂ As ₂ and SrPd ₂ As ₂ . 2018 , 98,	1
450	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. 2018 , 30, 7067-7076	7
449	Pressure effects on superconductivity and structural parameters of ThFeAsN. 2018 , 123, 67004	3
448	Single-crystal growth of the iron-based superconductor La _{0.34} Na _{0.66} Fe ₂ As ₂ . 2018 , 31, 125008	2
447	Odd-frequency pairing in the edge states of superconducting pnictides in the coexistence phase with antiferromagnetism. 2018 , 98,	2

- 446 A brief review on μ SR studies of unconventional Fe- and Cr-based superconductors. **2018**, 61, 1 17
- 445 Sign-reversal superconducting gaps revealed by phase-referenced quasiparticle interference of impurity-induced bound states in $(\text{Li}_{1-x}\text{Fex})\text{OHFe}_1\text{ZnySe}$. **2018**, 98, 10
- 444 Local structure study of the iron-based systems of BaFe_2As_2 and LiFeAs by X-ray PDF and XAFS analyses. **2018**, 555, 45-53 2
- 443 Neutron diffraction study on magnetic structures and transitions in $\text{Sr}_2\text{Cr}_3\text{As}_2\text{O}_2$. **2018**, 98, 4
- 442 Universal scaling behavior of the upper critical field in strained $\text{FeSe}_{0.7}\text{Te}_{0.3}$ thin films. **2018**, 20, 093012 3
- 441 Current-voltage characteristics and vortex dynamics of superconducting $\text{Ba}_{0.54}\text{K}_{0.46}\text{Fe}_2\text{As}_2$ single crystal. **2018**, 550, 244-249
- 440 Interplay of lattice, electronic, and spin degrees of freedom in detwinned BaFe_2As_2 : A Raman scattering study. **2018**, 98, 8
- 439 Superconductivity in Anti-ThCrSi-type ErOBi Induced by Incorporation of Excess Oxygen with CaO Oxidant. **2018**, 57, 10587-10590 9
- 438 Pressure-temperature phase diagrams of $\text{CaK}(\text{Fe}_{1-x}\text{Nix})_4\text{As}_4$ superconductors. **2018**, 97, 8
- 437 High transport current superconductivity in powder-in-tube $\text{Ba}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$ tapes at 27 T. **2018**, 31, 015017 40
- 436 Rapid Sonochemical Synthesis of an Intercalated Superconductor. **2018**, 3, 5652-5659 1
- 435 Electronic properties of LaTE_2Ge_2 ($\text{TE} = \text{Fe, Co, Ni, Cu}$ and Ru). **2018**, 280, 13-17 2
- 434 Magnetic interactions in a proposed diluted magnetic semiconductor $(\text{Ba}_{1-x}\text{K}_x)(\text{Zn}_{1-y}\text{Mn}_y)_2$. **2018**, 27, 067103 4
- 433 Doping evolution of spin fluctuations and their peculiar suppression at low temperatures in $\text{Ca}(\text{Fe}_{1-x}\text{Cox})_2\text{As}_2$. **2018**, 97, 4
- 432 Electron spin resonance in the superconducting state of $\text{Ba}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$. **2018**,
- 431 Temperature dependence of the superconducting energy gaps in $\text{CaLa}(\text{PtAs})(\text{FeAs})$ single crystal. **2018**, 8, 8648 6
- 430 Vibrational anomalies in AFe_2As_2 ($\text{A} = \text{Ca, Sr, and Ba}$) single crystals. **2018**, 98, 2
- 429 Physical properties and potential applications of two-dimensional metallic transition metal dichalcogenides. **2018**, 376, 1-19 31

428	Fe-Based Superconductors of (LnNa)FeAs (Ln = Ce, Pr). 2018 , 57, 9223-9229		3
427	Layered Superconductors. 2018 , 3, 4		
426	The melilite-type compound (Sr _{1-x} A _x) ₂ MnGe ₂ S ₆ O (A = K, La) being a room temperature ferromagnetic semiconductor. 2018 , 63, 887-891		3
425	Indication of subdominant d-wave interaction in superconducting CaKFe ₄ As ₄ . 2018 , 98,		11
424	Imaging Anomalous Nematic Order and Strain in Optimally Doped BaFe ₂ (As,P) ₂ . <i>Physical Review Letters</i> , 2018 , 121, 027001	7-4	10
423	Doping effects of Cr on the physical properties of BaFe _{1.9} Ni _{0.1} Cr _x As ₂ . 2018 , 98,		3
422	Structural phase transition, antiferromagnetism and two superconducting domes in LaFeAsO _{1-x} F _x (0 ≤ x ≤ 1). 2018 , 61, 1		5
421	Crystal and Magnetic Structures of the Chain Antiferromagnet CaFeAl. 2018 , 57, 5820-5829		2
420	Synthesis and structural characterization of Bi ₂ Sr ₂ Ca ₂ (Cu _{1-x} Fe _x) _n O _{10+n} (x = 0.01, n=3). 2018 ,		
419	Strong Flux Pinning Caused by Phase Distribution Characteristics in (Ba,K)Fe ₂ As ₂ Films. 2018 , 28, 1-5		1
418	Peculiar phase diagram with isolated superconducting regions in ThFeAsN O. 2018 , 30, 255602		8
417	Phase transition in CaFeAsH: bridging 1111 and 122 iron-based superconductors. 2018 , 47, 12964-12971		1
416	Dependence of the absolute value of the penetration depth in (Ba _{1-x} K _x)Fe ₂ As ₂ on doping. 2018 , 98,		2
415	Tight-binding study of the frequency and temperature dependent spin susceptibility of orbitally ordered iron-based superconductors. 2018 ,		
414	Effects of vanadium doping on BaFe ₂ As ₂ . 2018 , 122, 67006		1
413	Superconducting SrSnP with Strong Sn ²⁺ Antibonding Interaction: Is the Sn Atom Single or Mixed Valent?. 2018 , 30, 6005-6013		8
412	Investigation of transport properties of FeTe compound. 2018 ,		
411	Study of the Rare Earth Effects on the Magnetic Fluctuations in RbLn ₂ Fe ₄ As ₄ O ₂ (Ln (=) Tb, Dy, and Ho) by Mössbauer Spectroscopy. 2019 , 32, 361-365		

410	Effects of Deposition Temperature on the Structural and Physical Properties of Ba(Fe _{1.8} Co _{0.2}) ₂ As ₂ Thin Film. 2019 , 32, 869-875	1
409	Effects of core density and impurities on the critical current density of CaKFe ₄ As ₄ superconducting tapes. 2019 , 32, 105014	7
408	Persistent antiferromagnetic order in heavily overdoped Ca La FeAs. 2019 , 31, 485705	2
407	Quaternary antiferromagnetic Ba ₂ BiFeS ₅ with isolated FeS ₄ tetrahedra. 2019 , 28, 087401	1
406	Direct Microwave Synthesis of 11-Type Fe(Te,Se) Polycrystalline Superconductors with Enhanced Critical Current Density. 2019 , 36, 017401	1
405	Enhancement of Magnetic and Transport Properties of Superconducting Fe _{1-x} MnxSe _{0.5} Te _{0.5} Single Crystals. 2019 , 71, 3285-3292	4
404	Nanoscale interlayer defects in iron arsenides. 2019 , 277, 422-426	1
403	Advances in new generation diluted magnetic semiconductors with independent spin and charge doping. 2019 , 40, 081505	4
402	Effects of Swift-Particle Irradiations on Critical Current Density in CaKFe ₄ As ₄ . 2019 , 1293, 012013	5
401	Fabrication of (Ba,Na)Fe ₂ As ₂ round wires using HIP process. 2019 , 1293, 012043	3
400	Effect of non-magnetic rare earth substitution for Zr on mixed anion Zr(P, Se) ₂ superconductors II. 2019 , 1293, 012003	0
399	Synthesis and Structure of a Nonstoichiometric ZrPtSb Compound. 2019 , 58, 12017-12024	1
398	Raman scattering study of lattice and magnetic excitations in CrAs. 2019 , 100,	1
397	Temperature-dependent transport properties of a FeTe compound. 2019 , 42, 1	2
396	Observation of two collapsed phases in CaRbFe ₄ As ₄ . 2019 , 100,	2
395	Spiral magnetic ordering of the Eu moments in EuNi ₂ As ₂ . 2019 , 99,	5
394	In-plane magnetic penetration depth in FeSe _{1-x} S _x (x = 0, 0.04, 0.09) and FeTe _{1-x} Sex (x = 0.40) single crystals. 2019 , 92, 195-204	1
393	Material Development and Physical Properties of BiS ₂ -Based Layered Compounds. 2019 , 88, 041001	46

392	Facile synthesis of size-tunable tin arsenide nanocrystals. 2019 , 55, 1560-1563	16
391	Anomalous Dome-like Superconductivity in RE(CuNi)AsO (RE = La, Pr, Nd). 2019 , 14, 171-179	3
390	Partial order induced superconductivity in Fe ₂₊ iron. 2019 , 126, 47001	
389	Enhancement of the critical current density in Cu/Ag composite sheathed (Ba, K)Fe ₂ As ₂ tapes by pre-annealing process. 2019 , 6, 096003	5
388	Effect of Co Doping on the Superconducting Properties of Polycrystalline Fe _{1.01-x} CoxTe _{0.52} Se _{0.48} . 2019 , 32, 3715-3727	1
387	Large critical current density in Cu/Ag composite sheathed (Ba,K)Fe ₂ As ₂ tapes fabricated under ambient pressure. 2019 , 32, 065008	1
386	Enhancement of superconducting properties in polycrystalline Fe(Se, Te) via a dual coordination effect. 2019 , 169, 19-22	4
385	Theoretical investigation of the superconductivity mechanism of BaIr ₂ As ₂ . 2019 , 563, 42-47	0
384	Electrical resistivity under pressure and thermal expansion of LaPt ₂ Si ₂ single crystal. 2019 , 125, 143902	3
383	CaFe ₂ Ge ₂ with square-planar iron layers – Closing a gap in the row of CaT ₂ Ge ₂ (T = Mn, Zn). 2019 , 276, 368-375	0
382	Measurements of the superconducting anisotropy in FeSe with a resonance frequency technique. 2019 , 9, 045220	4
381	Structure-property relationship in layered BaMn ₂ Sb ₂ and Ba ₂ Mn ₃ Sb ₂ O ₂ . 2019 , 99,	2
380	Single-Crystal Growth and Extremely High H _{c2} of 12442-Type Fe-Based Superconductor KCa ₂ Fe ₄ As ₄ F ₂ . 2019 , 123, 13925-13929	21
379	Critical Currents of 100-m Class Ag-Sheathed Sr _{0.6} K _{0.4} Fe ₂ As ₂ Tape Under Various Temperatures, Magnetic Fields, and Angles. 2019 , 29, 1-5	3
378	The effect of pressure and doping on the critical current density in nickel doped BaFe ₂ As ₂ . 2019 , 32, 064001	2
377	Effects of different directional rolling on the fabrication of 7-filament Ba _{1-x} K _x Fe ₂ As ₂ tapes. 2019 , 561, 30-34	5
376	Fe-based superconducting thin films – preparation and tuning of superconducting properties. 2019 , 32, 093001	32
375	Hydrostatic pressure effect on superconductivity and vortex pinning mechanism of Sr(Fe _{0.88} Co _{0.12}) ₂ As ₂ single crystal. 2019 , 563, 22-27	2

374	The formation of defects and their influence on inter- and intra-granular current in sintered polycrystalline 122 phase Fe-based superconductors. 2019 , 32, 084003	10
373	Platelet-shape LiFePO ₄ /Fe ₂ P/C composite material as a high-rate positive electrode for Li-ion batteries. 2019 , 335, 113-120	4
372	Electronic, transport, and magnetic properties of (Ca, Ba) _{0.9} La _{0.1} Fe _{1.9} Pt _{0.1} As ₂ compounds. 2019 , 33, 1950008	1
371	The physical properties of ThCr ₂ Si ₂ - type nickel-based superconductors BaNi ₂ T ₂ (T = P, As): An ab-initio study. 2019 , 59, 58-69	5
370	Coexistence of SC and AFM in two-orbital model for s _± -wave iron based superconductors. 2019 , 295, 16-21	2
369	Large and significantly anisotropic critical current density induced by planar defects in CaKFe ₄ As ₄ single crystals. 2019 , 99,	28
368	. 2019 , 55, 1-30	75
367	Band-selective clean-limit and dirty-limit superconductivity with nodeless gaps in the bilayer iron-based superconductor CsCa ₂ Fe ₄ As ₄ F ₂ . 2019 , 99,	13
366	The physical properties of ThCr ₂ Si ₂ -type Ru-based compounds SrRu ₂ X ₂ (X = P, Ge, As): An ab-initio investigation. 2019 , 562, 48-55	1
365	Accurate determination of the Fermi surface of tetragonal FeS via quantum oscillation measurements and quasiparticle self-consistent GW calculations. 2019 , 99,	2
364	Spin reorientation of the Fe moments in Eu _{0.5} Ca _{0.5} Fe ₂ As ₂ : Evidence for strong interplay of Eu and Fe magnetism. 2019 , 99,	2
363	Structural, electronic, and dynamical properties of the tetragonal and collapsed tetragonal phases of KFe ₂ As ₂ . 2019 , 99,	6
362	Nuclear resonant small-angle scattering for investigation of microstructures in electronic States. 2019 ,	
361	Local magnetism, magnetic order and spin freezing in the 'nonmetallic metal' FeCrAs. 2019 , 31, 285803	6
360	Physical properties of ThCr ₂ Si ₂ -type Ni-based compounds SrNi ₂ M ₂ (M= As and Ge): DFT based Ab-initio calculations. 2019 , 560, 19-25	1
359	Ferromagnetism in fluoride-antimonide SrF(Zn _{1-2x} MnxCux)Sb with a quasi two dimensional structure. 2019 , 483, 95-99	4
358	ThCr ₂ Si ₂ structure type: The 'perovskite' intermetallics. 2019 , 272, 198-209	29
357	Enhanced superconductivity induced by several-unit-cells diffusion in an FeTe/FeSe bilayer heterostructure. 2019 , 99,	9

356	Theoretical investigation of the coexistence of superconductivity and spin density wave (SDW) in two-band model for the iron-based superconductor BaFe ₂ (As _{1-x} P _x) ₂ . 2019 , 92, 1		3
355	Lifshitz transition in new doped 112 superconductors. 2019 , 107, 126-136		9
354	Superconductivity in Uncollapsed Tetragonal LaFeAs. 2019 , 10, 1018-1023		8
353	High critical current density in Cu/Ag composited sheathed Ba _{0.6} K _{0.4} Fe ₂ As ₂ tapes prepared via hot isostatic pressing. 2019 , 32, 044007		9
352	¹⁹ F NMR Study of the Bilayer Iron-Based Superconductor KCa ₂ Fe ₄ As ₄ F ₂ *. 2019 , 36, 127401		2
351	Fe-family of superconductors: Influence of Ni dopant on the superconductivity in BaFe ₂ As ₂ crystal and the relaxation volume. 2019 , 4, 3069-3076		1
350	Synthesis and physical properties of CeRu ₂ As ₂ and CeIr ₂ As ₂ . 2019 , 100,		2
349	Iron-Based Superconductors. 2019 , 1-20		
348	Effect of Nonlocal Correlations on the Electronic Structure of LiFeAs. <i>Physical Review Letters</i> , 2019 , 123, 256401	7-4	15
347	Possible enhancement of superconductivity by Sb doping in rare earth doped 112 compounds: an ab-initio study. 2019 , 1-12		1
346	Thermodynamic Properties of Stoichiometric Non-Superconducting Phase YBaCuO. 2019 , 12,		1
345	Superconducting and tetragonal-to-orthorhombic transitions in single crystals of FeSe _{1-x} Tex (0 ≤ x ≤ 0.61). 2019 , 100,		15
344	Optical and photoemission investigation of structural and magnetic transitions in the iron-based superconductor Sr _{0.67} Na _{0.33} Fe ₂ As ₂ . 2019 , 100,		2
343	Phase Transitions and Critical Properties of the Heisenberg Antiferromagnetic Model on a Body-Centered Cubic Lattice with Second Nearest Neighbor Interaction. 2019 , 129, 903-910		9
342	Computational study on unconventional superconductivity and mechanical properties of novel antiferromagnetic (Ca,Sr,Ba)Fe ₂ Bi ₂ compounds. 2019 , 33, 1950341		2
341	Synthesis of Iron-Based Superconductor Ba _{0.6} K _{0.4} Fe ₂ As ₂ by Mechanical Alloying. 2019 , 46, 248-250		2
340	New layered chromium chalcogenides CsLiCrSe, RbLiCrS and CsLiCrS: structures and properties. 2019 , 48, 17572-17578		4
339	Electronic Structure and Linhard Function of Iron-Based Superconductor La _{0.5-x} Na _{0.5+x} Fe ₂ As ₂ . 2019 , 32, 855-861		0

338	Effects of heat treatment temperature on the superconducting properties of Ba _{1-x} K _x Fe ₂ As ₂ tapes. 2019 , 32, 025007	5
337	First-principles study of the magnetic and electronic properties of ACr ₂ As ₂ (A = Sr, Ba). 2019 , 476, 254-257	2
336	Recent breakthrough development in iron-based superconducting wires for practical applications. 2019 , 32, 023002	35
335	Effect of pressure on the self-hole-doped superconductor RbGdFeAsO. 2019 , 31, 044001	1
334	Structural and physical properties of Na-substituted K _{0.8} Fe _{2-y} Se ₂ single crystal. 2019 , 777, 1074-1079	
333	Angular Dependence of the Critical Current Density in Two-Band Ginzburg-Landau Theory. 2019 , 32, 1921-1926	1
332	Direct study of structural phase transformation in single crystalline bulk and thin film BaFeAs. 2019 , 119, 1-7	2
331	Multigap nodeless superconductivity in CsCa ₂ Fe ₄ As ₄ F ₂ probed by heat transport. 2019 , 99,	14
330	Fluctuation conductivity in the presence of magnetic field and nematicity in the ferro-pnictide superconductor BaFe ₂ (As _{0.68} P _{0.32}) ₂ . 2019 , 288, 74-78	1
329	DFT study of electronic structure properties of SrAFe ₄ As ₄ (A = Rb and Cs) superconductors. 2019 , 156, 206-214	2
328	Electronic, Structural, and Magnetic Properties of Hole-Doped Iron-Based Superconductors Using First Principle Study. 2020 , 33, 921-930	0
327	Isovalent Substitution Effects of Arsenic on Structural and Electrical Properties of Iron-Based Superconductor NdFeAsO _{0.8} F _{0.2} . 2020 , 33, 387-396	1
326	New materials physics. 2020 , 83, 016501	19
325	Crystal Growth of Materials with the ThCr ₂ Si ₂ Structure Type. 2020 , 55, 1900116	5
324	Distorted FeSe ₄ unit in ammonium ion intercalated FeSe superconductor. 2020 , 111, 107605	
323	Intra-layer atomic ordering and semi-conductivity in CsAMS ₂ (A = Li, Ag; M = Co, Fe). 2020 , 283, 121134	
322	Phase diagram of the antiferromagnetic Heisenberg model on a bcc lattice with competing first and second neighbor interactions. 2020 , 545, 123548	12
321	Fabrications and evaluations of critical current density of (Ba,Na)Fe ₂ As ₂ HIP round wires. 2020 , 568, 1353580	5

- 320 Synthesis of electron- and hole-doped bulk BaFe₂As₂ superconductors by mechanical alloying. **2020**, 46, 8625-8630 4
- 319 Optimization of superconducting properties of the stoichiometric CaKFe₄As₄. **2020**, 33, 025003 10
- 318 Magnetic Orders and Electronic Structures of Compressive- and Tensile-Strained KCa₂Fe₄As₄F₂ Films. **2020**, 33, 1377-1383 1
- 317 Crystal Growth and Investigation of High-Pressure Physical Properties of Fe₂As. **2020**, 10, 790
- 316 Effects of Point Defects Introduced by Co-doping and Proton Irradiation in CaKFe₄As₄. **2020**, 1590, 012014 3
- 315 Thermodynamic anisotropy in the samarium-based pnictide single-crystal superconductor. **2020**, 126, 1
- 314 Anisotropic optical properties of detwinned BaFe₂As₂. **2020**, 102, 2
- 313 Effect of oxygen contamination on densification of Fe(Se,Te). **2020**, 1559, 012051 1
- 312 Effect of annealing on structure and superconducting properties in Fe(Se,Te). **2020**, 1559, 012053
- 311 Mössbauer study of Ba₂Ti₂Fe₂As₄O. **2020**, 848, 155706 1
- 310 A New Quasi-One-Dimensional Ternary Molybdenum Pnictide Rb₂Mo₃As₃ with Superconducting Transition at 10.5K. **2020**, 37, 097401 3
- 309 Isotropic s-wave superconductivity in the noncentrosymmetric charge density wave superconductor SrPt₂As₂. **2020**, 102, 2
- 308 The effects of charge-doping and structural-parameter variations on magnetic behavior of BaFe₂As₂ compound. **2020**, 10, 219-224
- 307 Electronic and Magnetic Anisotropies in FeSe Family of Iron-Based Superconductors. **2020**, 8, 1
- 306 Hydrostatic and Uniaxial Pressure Tuning of Iron-Based Superconductors: Insights into Superconductivity, Magnetism, Nematicity, and Collapsed Tetragonal Transitions. **2020**, 532, 2000248 6
- 305 Time-Resolved Study of Pseudogap and Superconducting Quasiparticle Dynamics in Ca_{0.82}La_{0.18}Fe_{1-x}Ni_xAs₂. **2020**, 37, 067401 1
- 304 Identifying materials with charge-spin physics using charge-spin susceptibility computed from first principles. **2020**, 153, 074105 2
- 303 Heavy fermion behavior in Pr_{0.5}Ir₄Sb_{10.2}Sn_{1.8}. **2020**, 598, 412428

302	Electronic and Magnetic Properties of Cation Ordered SrMnCrAsO. 2020 , 59, 7553-7560	1
301	AFeSe ₂ (A=Tl, K, Rb, or Cs): Iron-based superconducting analog of the cuprates. 2020 , 101,	1
300	Mechanochemically assisted low temperature synthesis route of the 1144 Ca-K Iron Based Superconductor. 2020 , 33, 074003	6
299	NMR and NQR studies on transition-metal arsenide superconductors LaRu ₂ As ₂ , KCa ₂ Fe ₄ As ₄ F ₂ , and A ₂ Cr ₃ As ₃ . 2020 , 29, 067402	5
298	Fluctuations and pairing in Fe-based superconductors: light scattering experiments. 2020 , 32, 413001	2
297	High-temperature Majorana fermions in magnet-superconductor hybrid systems. 2020 , 101,	4
296	Influence of pressure on the transport, magnetic, and structural properties of superconducting CrNbSe single crystal.. 2020 , 10, 13112-13125	1
295	Magnetic states and electronic properties of Sr ₄ V ₂ O ₆ Fe ₂ As ₂ studied by DFT calculations. 2020 , 179, 109676	
294	Low temperature specific heat of 12442-type KCa ₂ Fe ₄ As ₄ F ₂ single crystals. 2020 , 63, 1	9
293	Enhancement of critical current density in helium ion irradiated Ba(Fe, Co) ₂ As ₂ thin films. 2020 , 33, 075012	1
292	Single crystal growth and effects of Ni doping on the novel 12442-type iron-based superconductor RbCa ₂ Fe ₄ As ₄ F ₂ . 2020 , 22, 073007	5
291	Band energies in two-band model for Fe based superconductors in the coexistence state. 2020 , 798, 012001	
290	Evolution of superconductivity and antiferromagnetic order in Ba(Fe _{0.92} Co _{0.08V_x}) ₂ As ₂ . 2020 , 101,	0
289	Preface to the special issue "Focus on 10 Years of Iron-Based Superconductors" 2020 , 33, 090301	1
288	Electron correlation induced orbital selective Lifshitz transition in new hybrid 12442 iron based superconductors. 2020 , 183, 109802	4
287	Antiferromagnetic Kondo lattice compound Ce ₂ O ₂ Bi with anti-ThCr ₂ Si ₂ -type structure. 2020 , 836, 155229	1
286	Magnetic fluctuation and suppression in high-temperature superconductor Ba(Fe _{1-x} Cox) ₂ As ₂ . 2020 , 575, 1353703	
285	The effect of the sintering process on Ag-doped FeSe _{0.94} superconducting wire. 2020 , 33, 095006	1

- 284 Superconductivity-induced transverse plasma mode and phonon anomaly in the c-axis response of the bilayer compound RbCa₂Fe₄As₄F₂. **2020**, 101, 2
- 283 Structural and physical properties of the new layered transition metal material Na₄Cu₃TaAs₄. **2020**, 63, 816-822
- 282 Heavily Hydride-ion-doped 1111-type Iron-based Superconductors: Synthesis, Physical Properties and Electronic Structure. **2020**, 89, 051006 6
- 281 Synthesis routes to eliminate oxide impurity segregation and their influence on intergrain connectivity in K-doped BaFe₂As₂ polycrystalline bulks. **2020**, 33, 084010 5
- 280 Muon spin rotation and infrared spectroscopy study of Ba_{1-x}NaxFe₂As₂. **2020**, 101, 1
- 279 Physical Properties of [A₆Cl][Fe₂₄Se₂₆](A = K, Rb) with Self-Similar Structure. **2020**, 37, 017401
- 278 Escape rate in Josephson junctions between single-band and two-band superconductors. **2020**, 574, 1353647 1
- 277 Ferromagnetic cluster-glass phase in Ca(Co_{1-x}Ir_x)₂As₂ crystals. **2020**, 102, 2
- 276 Superconductivity of KFe₂As₂ Under Pressure: Ab Initio Study of Tetragonal and Collapsed Tetragonal Phases. **2020**, 33, 2347-2354 1
- 275 Doping dependence and high-pressure studies on Eu_xCa_{1-x}Fe₂As₂ (0 ≤ x ≤ 1). **2020**, 33, 095010 0
- 274 Upper Critical Field of a Two-Band SrFe_{2-x}NixAs₂ Superconductor. **2020**, 111, 403-407 2
- 273 Iron-based superconductors: tales from the nuclei. **2020**, 43, 1-43 1
- 272 Anisotropy of the transport properties of NdFeAs(O,F) thin films grown on vicinal substrates. **2020**, 33, 044016 1
- 271 Magnetic and superconducting anisotropy in Ni-doped RbEuFe₄As₄ single crystals. **2020**, 101, 3
- 270 Single crystal growth and physical property characterization of ternary phosphide chalcogenide ZrP_{1.49}Se_{0.51}. **2020**, 141, 109423 1
- 269 Phase transitions and superconductivity of iron-based superconductors from first-principles. **2020**, 384, 126345 2
- 268 Synthesis, Crystal and Electronic Structure of Layered AMSb Compounds (A = Rb, Cs; M = Zn, Cd). **2020**, 646, 1079-1085 4
- 267 Centrosymmetric LaRh₂Ga₂. **2020**, 235, 41-46 1

- 266 Strong Pauli paramagnetic effect in the upper critical field of $\text{KCa}_2\text{Fe}_4\text{As}_4\text{F}_2$. **2020**, 63, 12
- 265 First-principles study of electron-phonon coupling and magnetoresistance of LaBi under pressure. **2020**, 101, 1
- 264 Iron based chalcogenide and pnictide superconductors: From discovery to chemical ways forward. **2020**, 59, 100282 0
- 263 High-critical-current-ratio superconducting joint between $\text{Ba}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$ tapes fabricated by angle-polishing method. **2020**, 33, 084011 2
- 262 Enhancement of critical current density in $(\text{Ba},\text{Na})\text{Fe}_2\text{As}_2$ round wires using high-pressure sintering. **2020**, 33, 065001 8
- 261 Ab-initio study of the electronic structure and magnetic properties of ACr_2Pn_2 ($\text{A} = \text{Ba}, \text{Sr}, \text{Ca}, \text{Sc}, \text{K}; \text{Pn} = \text{As}, \text{P}$). **2021**, 150, 109850 0
- 260 High pressure phase of Ba_2FeS_3 : An antiferromagnet with one-dimensional spin chains. **2021**, 859, 157839 6
- 259 1144 Fe based superconductors: natural example of orbital selective self-doping and chemical pressure induced Lifshitz transition. **2021**, 186, 109991 4
- 258 Physical properties and phase diagram of $\text{NaFe}_1-x\text{V}_x\text{As}$. **2021**, 30, 017401
- 257 Realization of epitaxial thin films of the superconductor K-doped BaFe_2As_2 . **2021**, 5, 1
- 256 The effect of the Ag addition on FeSe superconducting wire by the ex-situ PIT method. **2021**, 32, 2887-2894
- 255 Eisengruppe: Elemente der achten Nebengruppe. **2021**, 663-702
- 254 Distinct evolution of charge occupations on Fe 3d orbitals in hole-doped iron arsenic superconductors. **2021**, 133, 17004 0
- 253 Iron-Based Practical Superconductors. **2021**, 313-353
- 252 Internal and External Pressure Effects on Superconductivity in $\text{FeTe}_x\text{Se}_{1-x}$ ($x = 0.46, 0.54$) Single Crystals. **2021**, 34, 725-731 0
- 251 Pressure tuning of the iron-based superconductor $(\text{Ca}_{0.73}\text{La}_{0.27})\text{FeAs}_2$. **2021**, 103, 0
- 250 High-Temperature Cuprate Superconductors and Later Discoveries. **2021**, 73-121
- 249 NMR of Magnetic Materials: Determination of Magnetic Structures by $^n\text{Site}$ NMR Measurements. **2021**,

248	LaO as a candidate substrate for realizing superconductivity in an FeSe epitaxial film. 2021 , 103,	1
247	Quantum Mechanical Calculations of High-T _c Fe-Superconductors. 2021 , 11, 84-98	0
246	A Theoretical Investigation on the Physical Properties of SrPd ₂ Sb ₂ Superconductor. 2021 , 34, 1133-1139	6
245	Effect of heat treatments on superconducting properties and connectivity in K-doped BaFeAs. 2021 , 11, 3143	1
244	Elucidating the origin of planar defects that enhance critical current density in CaKFe ₄ As ₄ single crystals. 2021 , 34, 034003	5
243	Chemistry in Superconductors. 2021 , 121, 2966-2991	7
242	Electrochemical Synthesis and Crystal Structure of the Organic Ion Intercalated Superconductor (TMA)FeSe with $T_c = 43$ K. 2021 , 143, 3043-3048	9
241	Breakdown of Hund's rule for CuFeAs. 2021 , 103,	
240	Large negative magnetoresistance in the antiferromagnet BaMn ₂ Bi ₂ . 2021 , 103,	0
239	Visualization of the grain structure in high-performance Ba _{1-x} K _x Fe ₂ As ₂ superconducting tapes. 2021 , 34, 045017	2
238	Inhomogeneous superconductivity in Lu _x Zr _{1-x} B ₁₂ dodecaborides with dynamic charge stripes. 2021 , 103,	2
237	Interfacial Superconductivity Achieved in Parent AEF ₂ As (AE = Ca, Sr, Ba) by a Simple and Realistic Annealing Route. 2021 , 21, 2191-2198	1
236	Frustration effect on escape rate in Josephson junctions between single-band and three-band superconductors in the macroscopic quantum tunneling regime. 2021 , 47, 282-286	0
235	Drastic improvement of Curie temperature by chemical pressure in N-type diluted magnetic semiconductor Ba(Zn,Co) _{1-x} As _{1-x} . 2021 , 11, 7652	3
234	Superconductivity in Co-Layered LaCoSi. 2021 , 60, 6157-6161	3
233	Angle-resolved photoemission studies of quantum materials. 2021 , 93,	45
232	High-pressure synthesis, crystal structure, and properties of iron-based spin-chain compound Ba ₉ Fe ₃ Se ₁₅ . 2021 , 5,	1
231	Development of the iron-based superconducting coils for high magnetic field application. 2021 , 584, 1353855	1

- 230 Two-orbital model for interference of pseudo-gaps in the superconducting state of iron-based superconductors. **2021**, 330, 114273 0
- 229 WITHDRAWN: Complete phase diagram of FeSe_{1-x} (0 ≤ x ≤ 1) single crystals via hydrothermal method. **2021**, 110175
- 228 The Physical Properties of ThCr₂Si₂- Type Co-based Compound SrCo₂Si₂: An ab-initio Study. **2021**, 50-59
- 227 High-performance Ba_{1-x}K_xFe₂As₂ superconducting tapes with grain texture engineered via a scalable fabrication. **2021**, 64, 2530-2540 8
- 226 Inverse magnetic hysteresis of the Josephson supercurrent: Study of the magnetic properties of thin niobium/permalloy (Fe₂₀Ni₈₀) interfaces. **2021**, 103, 2
- 225 Reentrant metal-insulator transition and competing magnetic interactions on a triangular lattice with second nearest-neighbor hopping. **2021**, 103,
- 224 Sensitivity of As K-edge absorption to rare earth (RE) doping in Ca_{1-x}RE_xFeAs₂: A first principles study. **2021**, 153, 109993 8
- 223 Enhancing Transport Performance in 7-filamentary Ba_{0.6}K_{0.4}Fe₂As₂ Wires and Tapes via Hot Isostatic Pressing. **2021**, 585, 1353870 4
- 222 Charge-doping-induced variation of the superconducting BaFe₂As₂ electronic structure and the emerging physical effects: a DFT+DMFT study. **2021**, 56, 14157-14169 0
- 221 Intertwined charge, spin, and pairing orders in doped iron ladders. **2021**, 103, 0
- 220 Numerical and Experimental Analysis of Quench Behaviors in Iron-Based Sr/Ba₁₂₂ Superconducting Tape at Liquid Helium Temperature. **2021**, 34, 2011-2016
- 219 Disappearance and Survival of Superconductivity in FeSe under High Pressure. **2021**, 90, 073706 1
- 218 Ternary ACd₄P₃ (A = Na, K) Nanostructures via a Hydride Solution-Phase Route. 0
- 217 Correlation of Tunable CoSi Tetrahedron with the Superconducting Properties of LaCoSi. **2021**, 60, 10880-10884
- 216 Block-layer model for intergrowth structures. **2021**, 14, 3629-3635 1
- 215 Pressure-induced structural and electronic transitions in InTe. **2021**, 104, 0
- 214 HHG-laser-based time- and angle-resolved photoemission spectroscopy of quantum materials. **2021**, 251, 147105 1
- 213 Characterization of Spatial Distribution of Local Critical Current Density in a Co-Doped BaFe₂As₂ Film Based on Magnetic Microscopy. **2021**, 31, 1-4 0

212	Intrinsic defects and local charge ordering of single-crystal FeTe. 2021 , 79, 552-556	
211	Evolution of Superconducting Properties in FeSeTe Films Before and After Structure Avalanche. 2021 , 13, 42138-42145	0
210	Fabrication of small superconducting coils using (Ba,A)Fe ₂ As ₂ (A: Na, K) round wires with large critical current densities. 2021 , 34, 105008	3
209	Structural modulation and physical properties of cobalt-doped layered La ₂ M ₅ As ₃ O ₂ (M = Cu, Ni) compounds*. 2021 , 30, 076106	
208	Electronic Structure and Superconductivity of Compressed Metal Tetrahydrides. 2021 , 27, 14858-14870	3
207	Suppression of antiferromagnetic order and strong ferromagnetic spin fluctuations in Ca(Co _{1-x} Ni _x) ₂ As ₂ single crystals. 2021 , 104,	
206	Critical Current Density and Vortex Dynamics in Pristine and Irradiated KCaFeAsF. 2021 , 14,	1
205	First-principles calculations of structural, electronic, magnetic, thermoelectric, and thermodynamic properties of BaMn ₂ P ₂ in the Anti and ferromagnetic phase. 2021 , 302, 122388	3
204	Critical behavior of ferromagnetic transition in La _{0.85} Co _{1.68} As ₂ crystal. 2022 , 541, 168517	
203	Observation of two-dimensional superconductivity in an ultrathin iron-arsenic superconductor. 2021 , 8, 025024	0
202	Angle-Resolved Photoemission Spectroscopy Studies on the Electronic Structure and Superconductivity Mechanism for High Temperature Superconductors. 2021 , 0-0	1
201	Introduction to Fe-Based Superconductors. 2021 , 1-25	
200	High-Resolution Inelastic X-Ray Scattering I: Context, Spectrometers, Samples, and Superconductors. 2015 , 1-68	5
199	Itinerant Electron Scenario. 2015 , 255-329	9
198	Point-Contact Spectroscopy of Multigap Superconductors. 2010 , 187-210	1
197	Current status of iron-based superconductors. 2012 , 703-711	1
196	Optical properties of Ba _{0.6} K _{0.4} Fe ₂ As ₂ thin film prepared by pulsed laser deposition and subsequent post-annealing process. 2017 , 17, 976-979	2
195	Anomalous transverse resistance in 122-type iron-based superconductors. 2019 , 9, 664	2

194	Transport critical currents in the iron pnictide superconducting wires prepared by the ex situ PIT method. 2010 , 23, 055009	51
193	Short-range ferromagnetic order due to Ir substitutions in single-crystalline $\text{Ba}(\text{CoIr})\text{As}(\text{O} \approx \text{O}_{2.5})$. 2020 ,	0
192	Ion irradiation of iron chalcogenide superconducting films. 2020 , 33, 094008	1
191	Strong flux pinning and anomalous anisotropy of $\text{Sr}_{0.6}\text{K}_{0.4}\text{Fe}_2\text{As}_2$ superconducting tapes. 2020 , 33, 125001	3
190	Pressure dependent elastic, electronic, superconducting, and optical properties of ternary barium phosphides (BaM_2P_2 ; $\text{M} = \text{Ni, Rh}$): DFT based insights. 2020 , 95, 105809	9
189	Eliashberg theory for spin fluctuation mediated superconductivity: Application to bulk and monolayer FeSe. 2020 , 102,	12
188	Effects of disorder on the intrinsically hole-doped iron-based superconductor $\text{KCa}_2\text{Fe}_4\text{As}_4\text{F}_2$ by cobalt substitution. 2017 , 96,	17
187	Optimization of the crystal growth of the superconductor $\text{CaKFe}_4\text{As}_4$ from solution in the $\text{FeAs}-\text{CaFe}_2\text{As}_2-\text{Fe}_2\text{As}_2$ system. 2017 , 1,	49
186	Filling the holes in the CaFe_4As_3 structure: Synthesis and magnetism of CaCo_5As_3 . 2017 , 1,	1
185	Prediction of a new class of half-metallic ferromagnets from first principles. 2017 , 1,	7
184	Superconductivity at 33 ± 7 K in $\text{ALn}_2\text{Fe}_4\text{As}_4\text{O}_2$ ($\text{A} = \text{K}$ and Cs ; $\text{Ln} = \text{lanthanides}$). 2017 , 1,	23
183	Superconductivity in the ternary compound $\text{SrPt}_{10}\text{P}_4$ with complex new structure. 2017 , 1,	4
182	Ultrahigh critical current densities, the vortex phase diagram, and the effect of granularity of the stoichiometric high- T_c superconductor $\text{CaKFe}_4\text{As}_4$. 2018 , 2,	39
181	Ambipolar suppression of superconductivity by ionic gating in optimally doped $\text{BaFe}_2(\text{As,P})_2$ ultrathin films. 2019 , 3,	9
180	Electronic structures of quasi-one-dimensional cuprate superconductors $\text{Ba}_2\text{CuO}_3 + \delta$. 2019 , 3,	9
179	Anisotropic physical properties and large critical current density in $\text{KCa}_2\text{Fe}_4\text{As}_4\text{F}_2$ single crystal. 2020 , 4,	7
178	Pairing symmetry and topological surface state in iron-chalcogenide superconductors. 2020 , 2,	6
177	Structure-mining: screening structure models by automated fitting to the atomic pair distribution function over large numbers of models. 2020 , 76, 395-409	9

- 176 Effect of Ln-Site Disorder on T_c of Oxy pnictide Superconductor LnFeAsO_{1-x}F_x (Ln = Nd, Ce, and La). **2009**, 78, 073701 6
- 175 The magnetic phase diagram of Ca_{1-x}Sr_xCo₂As₂ single crystals. **2013**, 104, 67005 9
- 174 Fabrication and Properties of PIT Processed Iron-Based Ba-122 Superconducting Tapes Using Double Sheath of Stainless Steel and Ag-Sn Alloy. **2019**, 83, 346-351 2
- 173 Simple Chemical Synthesis of Ternary Intermetallic RENi₂Si₂ (RE = Y, La) Nanoparticles in Molten LiCl-Al₂H₂ System. **2020**, 61, 1037-1040 9
- 172 New high-temperature superconductors based on rare earth and transition metal oxyarsenides and related phases: synthesis, properties and simulation. **2008**, 178, 1273 23
- 171 FeAs systems: a new class of high-temperature superconductors. **2008**, 178, 1307 24
- 170 Chemically degraded grain boundaries in fine-grain Ba_{0.6}K_{0.4}Fe₂As₂ polycrystalline bulks. **2020**, 13, 113002 4
- 169 On the s_w-Wave Superconductivity in the Iron-Based Superconductors: A Perspective Based on a Detailed Study of Ba_{0.6}K_{0.4}Fe₂As₂ via the Generalized Bardeen-Cooper-Schrieffer Equations Incorporating Fermi Energy. **2017**, 07, 130-145 2
- 168 Single crystal growth and physical property study of 1111-type Fe-based superconducting system CaFeAsF. **2018**, 67, 177401 2
- 167 Frontiers of Research on Iron-Based Superconductors toward Their Application. **2012**, 51, 010005 47
- 166 Evolution of Tetragonal Phase in the FeSe Wire Fabricated by a Novel Chemical-Transformation Powder-in-Tube Process. **2012**, 51, 010101 14
- 165 Existence of a vortex-glass phase transition in an optimally doped BaFe_{1.8}Co_{0.2}As₂ single crystal. **2013**, 15, 16-19 2
- 164 Anisotropic superconductivity of high quality FeSe_{1-x} single crystal. **2014**, 16, 26-30 2
- 163 Upper critical field and superconducting anisotropy of BaFe_{2-x}Ru_xAs₂ (x = 0.48 and 0.75) single crystals. **2014**, 16, 31-35 1
- 162 Investigation of Structural, Electronics, Optical, Mechanical and Thermodynamic Properties of YRu₂P₂ Compound for Superconducting Application. **2021**, 34, 3089 2
- 161 Robust superconductivity against water corrosion in Ba_{1-x}K_xFe₂As₂ bulks. **2021**, 34, 125008 2
- 160 Competitive and cooperative electronic states in Ba(Fe_{1-x}T_x)₂As₂ with T = Co, Ni, Cr. **2021**, 6, 2
- 159 The structural evolution and superconductivity under pressure for superconductor AFe₂As₂ (A = Ba, Sr).

- 158 Search for New High-Tc Superconductors at Elevated Temperatures. 1
- 157 Self-regulated growth of candidate topological superconducting parkerite by molecular beam epitaxy. **2021**, 9, 101110 0
- 156 NMR Study of Iron-Based Superconductor under High Pressure. **2009**, 19, 129-137
- 155 High-Pressure Synthesis of New Fe-based Superconductors. **2009**, 19, 106-112
- 154 Nanoscale Structures and Pseudogap in Under-doped High-Tc Superconductors. **2010**, 211-229
- 153 Electronic structures cobalt group pnictides: BaT₂P₂ and BaT₂As₂ (T=Co, Rh, Ir). **2011**, 60, 067101
- 152 Superconductivity and spin fluctuations. **2011**, 6, 429-439 4
- 151 Influence of Structure on Superconductivity in Iron-Based Superconductors by Doping or under Pressure. **2012**, 01, 1-6
- 150 Iron-Based Superconductors. **2012**, 1-52
- 149 Quantum Oscillations in Iron Pnictide Superconductors. **2012**, 125-159 1
- 148 Angle-Resolved Photoemission Spectroscopy of Iron Pnictides. **2012**, 89-124
- 147 Material Specific Model Hamiltonians and Analysis on the Pairing Mechanism. **2012**, 357-430
- 146 Magnetism in Parent Compounds of Iron-Based Superconductors. **2012**, 473-512
- 145 Optical Investigation on Iron-Based Superconductors. **2012**, 161-241
- 144 Antiferromagnetic Spin Fluctuations in the Fe-Based Superconductors. **2012**, 243-274
- 143 Synthesis and Physical Properties of the New Potassium Iron Selenide Superconductor K_{0.80}Fe_{1.76}Se₂. **2012**, 53-87 1
- 142 Results and Discussion. **2014**, 79-124
- 141 Iron-Based Superconductors. **2014**, 13-45

- 140 Magnetic and transport properties of single crystals of Fe-based superconductors of 122 family. **2014**, 184, 897-902 0
- 139 Magnetic Order and Dynamics: Neutron Scattering. **2015**, 151-186
- 138 Optical and Transport Properties. **2015**, 187-219
- 137 Introduction: Discovery and Current Status. **2015**, 3-19
- 136 First-Principles Studies in Fe-Based Superconductors. **2015**, 223-253
- 135 Magnetic neutron scattering studies on the Fe-based superconductor system $\text{Fe}_{1+y}\text{Te}_{1-x}\text{Se}_x$. **2015**, 64, 097503 1
- 134 Coexistence of Spin Density Wave (SDW) and Superconductivity in $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$. **2015**, 05, 319-331
- 133 Investigation on the flux pinning force and flux pinning mechanism in $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$ single crystal with $T_c = 38.5$ K. **2015**, 64, 117401
- 132 Introduction. **2016**, 1-20
- 131 Mulliken Occupation as the Indicator of Transition to Superconducting State in SrFe_2As_2 and BaFe_2As_2 . **2016**, 130, 655-658
- 130 Te Katkıları FeSe-11 Bileşimlerine Etkisi, İhtimi ve Karakterizasyonu. **2016**, 31, 175-180
- 129 Iron-Based Superconductors. **2017**, 9-27
- 128 Superconductivities of pressurized iron pnictide superconductors. **2017**, 66, 037402 3
- 127 Introduction. **2017**, 1-12
- 126 Iron Based Superconductors: Introduction to the Volume. **2017**, 1-6
- 125 Hybridization Effect in $\text{BaFe}_2(\text{As}_{1-x}\text{P}_x)_2$ Observed by Hard X-ray Photoemission Spectroscopy. **2017**, 86, 053702 1
- 124 Infrared spectroscopy study of iron based superconductor $\text{Li}_{0.8}\text{Fe}_{0.2}\text{OFeSe}$. **2018**, 67, 207102
- 123 Angle-resolved photoemission studies on iron based high temperature superconductors. **2018**, 67, 207413 2

- 122 Self-doped iron-based superconductors with intergrowth structures. **2018**, 67, 207406 2
- 121 Uniaxial Stress Technique. **2018**, 13-48
- 120 Recent progress of 122-type iron-based superconducting wires and tapes. **2018**, 67, 207402
- 119 Antiferromagnetic order and spin dynamics in iron-based superconductors. **2018**, 67, 207407 1
- 118 Research progress about 111-typed iron based superconductor. **2018**, 67, 207414
- 117 Imaging the magnetic states in an actinide ferromagnet UMn_2Ge_2 . **2018**, 2, 1
- 116 Eisengruppe: Elemente der achten Nebengruppe. **2019**, 1-40
- 115 High-Resolution Inelastic X-Ray Scattering I: Context, Spectrometers, Samples, and Superconductors. **2019**, 1-82 0
- 114 BaRu₂As₂ Malzemesinin Fiziksel Özelliklerinin Yoğunluk Fonksiyonel Teorisi Kullanılarak İncelenmesi.
- 113 Co Doping and High Pressure Studies of the Iron Arsenide $La_{0.4}Na_{0.6}Fe_2As_2$. **2020**, 89, 055001 0
- 112 Physical properties and magnetic structure of a layered antiferromagnet $PrPd_{0.82}Bi_2$. **2020**, 29, 067502
- 111 Effects of Splayed Columnar Defects on Critical Current Density in $CaKFe_4As_4$. **2020**, 1590, 012015 0
- 110 High-Resolution Inelastic X-Ray Scattering I: Context, Spectrometers, Samples, and Superconductors. **2020**, 2131-2212
- 109 First-order transition in trigonal structure $CaMn_2P_2$. **2020**, 132, 46001 0
- 108 Synthesis and Magnetic Properties in Quaternary $Ca_{1-x}Pr_xCo_2As_2$ Single Crystals. **2020**, 1
- 107 Pd-P antibonding interactions in APd_2P_2 (A=Ca and Sr) superconductors. **2020**, 4, 1
- 106 Multipole Fluctuation of Iron Pnictide Superconductor $Ba(Fe_{1-x}Co_x)_2As_2$. **2020**,
- 105 Superconducting properties of 1144-type iron-based superconductors by mechanochemically assisted synthesis. 1 1

- 104 Pressure Dependence of Superconducting Properties, Pinning Mechanism, and Crystal Structure of the FeMnSeTe Superconductor. **2021**, 6, 30419-30431
- 103 Critical Current and Pinning Features of a CaKFeAs Polycrystalline Sample. **2021**, 14, 0
- 102 Surface morphology and electronic structure in stoichiometric superconductor CaKFe₄As₄ probed by scanning tunneling microscopy/spectroscopy. **2021**, 64, 1 0
- 101 First Principles of the Classical Mechanics and the Foundations of Statistical Mechanics on the Example of a Disordered Spin System. **2020**, 55, 265-274 2
- 100 Zintl chemistry: Current status and future perspectives. **2021**, 133841 2
- 99 Rotational symmetry breaking at the incommensurate charge-density-wave transition in Ba(Ni,Co)₂(As,P)₂: Possible nematic phase induced by charge/orbital fluctuations. **2021**, 104, 1
- 98 Transverse distribution of critical current density in Ag-sheathed Ba_{1-x}K_xFe₂As₂ tapes. **2022**, 35, 015004 0
- 97 High-performance Ba_{1-x}K_xFe₂As₂ superconducting joints for persistent current operation. **2022**, 35, 03LT01 0
- 96 Mechanical properties and densification mechanism of powder-in-tube Ba_xK_{1-x}Fe₂As₂ superconductors. 1
- 95 Electronic structure and structural stability of (Ba_{0.75}Ae_{0.25})Fe₂As₂ (Ae = Li, Na, Rb). **2022**, 593, 1354013
- 94 Evidence of strong correlation and magnetotransport scaling in YbFe₂As₂. **2022**, 630, 413696
- 93 Probing the current-phase relation in Josephson point-contact junctions between [Formula: see text]In[Formula: see text] and [Formula: see text]K[Formula: see text](FeAs)[Formula: see text] superconductors.. **2021**, 11, 23986 0
- 92 Theoretical studies of high-T_c Fe-superconductors based on BaFe₂As₂ in presence of dopants Rh and Pd. **2022**, 54, 95-100
- 91 Evolution of Bonding and Magnetism Changes in Valence Electron Count in CuFeCoGe.. **2022**,
- 90 In Situ Visualization of Local Distortions in the High- Molecule-Intercalated Li(CHN)FeSe Superconductor.. **2022**, 0
- 89 Mixed-state Hall scaling behavior and vortex phase diagram in FeSe_{0.7}Te_{0.3} thin films. **2022**, 105, 0
- 88 Effects of precursor powder particle size on the powder-in-tube Ba_{1-x}K_xFe₂As₂ superconducting tapes. **2022**, 35, 055008 1
- 87 High-Pressure Studies of Correlated Electron Systems. 2100623 0

- 86 Local Atomic Configuration Control of Superconductivity in the Undoped Pnictide Parent Compound BaFe₂As₂. ○
- 85 Electrical Resistivity and Magnetization Study on LaFe₂As₂, La_{0.8}Ba_{0.2}Fe₂As₂, and La_{1-x}BaxPt_{0.1}Fe_{1.9}As₂ (x = 0, 0.05, 0.2, 0.4, and 0.6) Superconducting Compounds. **2022**, 51, 2624-2644
- 84 Enhanced Nernst effect above T_c in the quasi-two-dimensional iron pnictide superconductor CsCa₂Fe₄As₄. **2022**, 105, ○
- 83 Influences of Pb Substitution on Microstructure, Electrical Transport, and Mechanical Properties of Single-Crystal FeTe_{0.5}Se_{0.5} Superconductors. 1 ○
- 82 Investigation of the flux dynamics in KCa₂Fe₄As₄F₂ single crystal by ac susceptibility measurements. **2022**, 35, 055013 ○
- 81 Enhanced critical current density in K-doped Ba₁₂₂ polycrystalline bulk superconductors via fast densification.. **2022**, 25, 103992 ○
- 80 Transport and magnetic properties in polycrystalline Ba(Mn_{1-x}Cr_x). **2022**, 413880
- 79 Progress of ultra-high-field superconducting magnets in China. **2022**, 35, 023001 1
- 78 Weakness of Correlation Effect Manifestation in BaNi₂As₂: An ARPES and LDA + DMFT Study. **2021**, 125, 28075-28087 ○
- 77 Bulk and Single Crystal Growth Progress of Iron-Based Superconductors (FBS): 1111 and 1144. **2022**, 12, 20 1
- 76 First-principles study of the electronic structure of CaKRu₄P₄. **2021**, 104,
- 75 Dynamic crossover across the peak effect in Ba_{1-x}K_xFe₂As₂ superconductor for H||c-axis and H||ab-plane.
- 74 Tailoring the critical temperature of Ca/K-1144 superconductors: the effect of aliovalent substitution on tetragonality. 2
- 73 Physical properties and electronic structure of single-crystal KCo₂As₂. **2022**, 6, ○
- 72 Antiferromagnetic structure and magnetic properties of Dy₂O₂Te : An isostructural analog of the rare-earth superconductors R₂. **2022**, 105,
- 71 The Magnetic Suppression and Electronic Structure Evolution of K_{1-x}Fe₂Se₂ with Different K Vacancy Concentration. 1
- 70 Progress in the development of the 122-type IBS wires. **2022**, 100010 1
- 69 Electronic structure, magnetic, and thermoelectric properties of BaMn₂As₂ compound: a first-principles study. ○

- 68 Multiband superconductivity in SrFe₂As₂. **2022**, 4, 1
- 67 Temperature-dependent structure of an intermetallic ErPd₂Si₂ single crystal: a combined synchrotron and in-house X-ray diffraction study. 1-7 ○
- 66 Theoretical Model Study of Low Energy Spin Excitations in Iron-Chalcogenide A_xFe_{2-x}Se₂ : One band approach. ○
- 65 Competing long-range and short-range interactions in ferromagnetic semiconductors: Evidence from first principle calculations. **2022**, 169518 ○
- 64 Magnetic phase diagram of the solid solution LaMn₂(Ge_{1-x}Si_x)₂ (0 ≤ x ≤ 1) unraveled by powder neutron diffraction. **2022**, 12, ○
- 63 As³⁺ Be Pentagonal Linkers to Induce Chirality and Polarity in Mixed-Valent Fe³⁺ Be Tetrahedral Chains Resulting in Hidden Magnetic Ordering. 1
- 62 First-principles prediction of outstanding mechanical and thermodynamic properties of YX₂Si₂ (X = Pd and Rh) superconductors. **2022**, 31, 103785 1
- 61 A first principle study of electronic structure and magnetic properties of TlFe₂Se₂. **2022**,
- 60 A brief review of the physical properties of charge density wave superconductor LaPt₂Si₂. **2022**, 35, 084006
- 59 Multiple magnetic orders in LaFeAs_{1-x}PxO uncover universality of iron-pnictide superconductors. **2022**, 5, ○
- 58 Anomalous high-field magnetotransport in CaFeAsF due to the quantum Hall effect. **2022**, 7, ○
- 57 A Mini Review on Thin Film Superconductors. **2022**, 10, 1184 ○
- 56 Density-functional theory study of magnetic and electronic properties of KFe₂Se₂ under pressure. **2022**, 561, 111604 ○
- 55 Conventional type-II superconductivity in locally noncentrosymmetric LaRh₂As₂ single crystals. **2022**, 106, ○
- 54 K-doped Ba₁₂₂ epitaxial thin film on MgO substrate by buffer engineering. ○
- 53 Structural and magnetic properties of CaCo₂-As₂ (x = 0-0.3) in ThCr₂Si₂-type structure. **2022**, 414214
- 52 Three-dimensional microstructure and critical current properties of ultrafine grain Ba(Fe,Co)₂As₂ bulk superconductors. **2022**, 923, 166358
- 51 Growth and characterization of superconducting Ca_{1-x}Na_xFe₂As₂ single crystals by NaAs-flux method.

- 50 Spin-flip-driven reversal of the angle-dependent magnetic torque in layered antiferromagnetic $\text{Ca}_{0.9}\text{Sr}_{0.1}\text{Co}_2\text{As}_2$. **2022**, 12, 1
- 49 First-principles study on the magnetic and electronic properties of the high-pressure orthorhombic phase of MnSe . **2022**, 106,
- 48 Effect of S-doping on the magnetic and electrical properties of FeSe superconductor. **2022**, 1354126 0
- 47 Study of superconducting gap in presence of antiferromagnetism in iron pnictide superconductors. **2022**, 126, 103525
- 46 Transport properties of an antiferromagnet Ba_2FeS_3 with one-dimensional spin chains under pressure. **2022**, 325, 132870
- 45 First-principles study of K, Ni and P doped superconductor AFe_2As_2 (A=Ba, Sr). **2022**, 355, 114931 0
- 44 Introduction. **2022**, 1-19 0
- 43 Electronic Phase Separation in Magnetic Materials. **2022**, 123, 674-708 0
- 42 The Effect of Powder-Impregnated Post-Rolling Sintering Process on $\text{SmFeAsO}_{1-x}\text{F}_x$ Tapes Fabricated by Powder-in-Tube Method. 0
- 41 Hybridization of $\text{CaFe}_{1-x}\text{Co}_x\text{AsF}$ ($x = 0, 0.06, 0.11, 0.144$) studied by x-ray absorption spectroscopy and ultraviolet photoemission spectroscopy. **2022**, 48, 692-695 0
- 40 Significant enhancement of transport J_c in Cu/Ag-sheathed $(\text{Ba},\text{K})\text{Fe}_2\text{As}_2$ superconducting tapes by pre-composite technique. 0
- 39 First-principles calculations to investigate structural, electronics, optical and mechanical properties of LaRu_2P_2 compound for superconducting application. 1-9 0
- 38 Pressure driven magnetic order in $\text{Sr}_{1-x}\text{Ca}_x\text{Co}_2\text{P}_2$. **2022**, 12, 0
- 37 Pressure-temperature phase diagram of $\text{CaK}(\text{Fe}_{1-x}\text{Mn}_x)_4\text{As}_4$. **2022**, 106, 0
- 36 Impact of atomic defects in the electronic states of $\text{FeSe}_{1-x}\text{S}_x$ superconducting crystals. 0
- 35 Reentrant superconductivity due to inter-band off-diagonal hopping in a two-band superconductivity model. **2022**, 95, 0
- 34 Strong band renormalization and emergent ferromagnetism induced by electron-antiferromagnetic-magnon coupling. **2022**, 13, 0
- 33 A bi-layer barrier design for 122-type iron-based superconducting wires and tapes. **2022**, 103598 0

- 32 In-plane electronic anisotropy revealed by interlayer resistivity measurements on the iron-based superconductor parent compound CaFeAsF. **2022**, 106, ○
- 31 Pinning potential in highly performant CaKFe4As4 superconductor from DC magnetic relaxation and AC multi-frequency susceptibility studies. **2022**, 12, ○
- 30 High upper critical field (120 T) with small anisotropy of highly hydrogen-substituted SmFeAsO epitaxial film. **2022**, 6, ○
- 29 Fermi Surface Geometry of Heavily Hole Doped CaKFe4As4 Revealed by Angle-Resolved Photoemission Spectroscopy. **2022**, 91, ○
- 28 Interface effects on current transport properties in multi-layered (Ba, K)Fe2As2 superconducting wires. ○
- 27 Superconductivity enhanced by pair fluctuations between wide and narrow bands. **2022**, 106, ○
- 26 Heat capacity double transitions in time-reversal symmetry broken superconductors. **2022**, 106, ○
- 25 Critical current degradation behavior of 7-filamentary Ba1-xKxFe2As2 tapes under uniaxial strain. **2023**, 36, 015004 ○
- 24 Pressure Evolution of Ultrafast Photocurrent Dynamics and Electron-Phonon Coupling in FeTe0.5Se0.5. **2022**, 15, 8467 ○
- 23 Modulations in Superconductors: Probes of Underlying Physics. 2209457 ○
- 22 Evolution of magnetic properties in iron-based superconductor Eu-doped CaFe2As2. 2, ○
- 21 Eisengruppe: Elemente der achten Nebengruppe. **2023**, 1-43 ○
- 20 Fabrication of multi-filament(Ba,A)Fe2As2 (A: Na, K) HIP round wires and a small superconducting coil. **2023**, 36, 015009 ○
- 19 Flipping of antiferromagnetic to superconducting states in pressurized quasi-one-dimensional manganese-based compounds. **2022**, 106, 2
- 18 Synthesis and Characterization of [Fe3(As3)3As4]3a Binary Fe/As Zintl Cluster With an Fe3 Core. ○
- 17 Theoretical Investigation of the Superconducting and Thermodynamic Properties of Two-Band Model High-Temperature Iron-Based Superconductor Ba1-xNaxFe2As2. **2023**, 67, 722 ○
- 16 Magnetic Vortex Phase Diagram for a Non-Optimized CaKFe4As4 Superconductor Presenting a Wide Vortex Liquid Region and an Ultra-High Upper Critical Field. **2023**, 13, 884 ○
- 15 Synthesis and Characterization of [Fe3(As3)3As4]3a Binary Fe/As Zintl Cluster With an Fe3 Core. ○

- 14 Unconventional density waves and superconductivities in Fe-based superconductors and other strongly correlated electron systems. 1-89 ○
- 13 Evolution of anisotropic magnetic properties through helix-to-fan transition in helical antiferromagnetic EuCo₂As₂. **2023**, 6, ○
- 12 Tetragonal SnOFeSe: A possible parent compound of the FeSe-based superconductor. **2023**, 107, ○
- 11 Structural and electronic structure evolution of K_xFe₂As₂Se₂ from semiconducting phase to superconducting phase. **2023**, 36, 045011 ○
- 10 Flux Pinning Properties of 7-Filament Cu/Ag-Sheathed Ba_{1-x}K_xFe₂As₂ Tapes at 4.2 K. **2023**, 33, 1-5 ○
- 9 Comparative study of the structural, mechanical, electronic, optical and thermodynamic properties of superconducting disilicide YT₂Si₂ (T=Co, Ni, Ru, Rh, Pd, Ir) by DFT simulation. **2023**, 178, 111342 ○
- 8 Possible Raman signature of broken symmetry states near the quantum critical point in P doped BaFe₂As₂: Experiment and theory. **2023**, 606, 1354211 ○
- 7 Electronic properties and surface states of RbNi₂Se₂. **2023**, 654, 414697 ○
- 6 Macroscopically ordered phase separation: A new strategy for improving the superconducting performance in Fe(Se, Te). **2023**, 17, 100354 ○
- 5 Constitutive behaviour study of Ba_xK_{1-x}Fe₂As₂ iron-based superconducting powder. **2023**, 36, 045016 ○
- 4 Spin-flip-driven anomalous Hall effect and anisotropic magnetoresistance in a layered Ising antiferromagnet. **2023**, 13, ○
- 3 Symmetry of Identical Particles, Modern Achievements in the Pauli Exclusion Principle, in Superconductivity and in Some Other Phenomena. **2023**, 15, 701 ○
- 2 A Study of the Temperature-Dependent Surface and Upper Critical Magnetic Fields in KFeSe and LaSrCuO Superconductors. **2023**, 13, 526 ○
- 1 Ferromagnetic quantum critical phenomena in single-crystalline SrCo₂(Ge_{1-x}P_x)₂. **2023**, 107, ○