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## Coupling of two superconductors through a ferromagnet: evidence for a pi junction

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1008	Josephson coupling through a quantum dot. <b>2001</b> , 64,		43
1007	Intrinsically frustrated superconducting array of superconductor-ferromagnet-superconductor $\pi$ junctions. <b>2001</b> , 65,		110
1006	Controllable $\pi$ SQUID. <b>2001</b> , 79, 2940-2942		20
1005	Paramagnetic and diamagnetic States in two-dimensional josephson-junction arrays. <i>Physical Review Letters</i> , <b>2002</b> , 89, 167001	7.4	6
1004	Oscillations of the superconducting critical current in Nb-Cu-Ni-Cu-Nb junctions. <i>Physical Review Letters</i> , <b>2002</b> , 89, 187004	7.4	168
1003	Spin-orbit scattering effect on critical current in SFIFS tunnel structures. <b>2002</b> , 66,		11
1002	Minigap in a long disordered SNS junction: Analytical results. <b>2002</b> , 66,		17
1001	Strong coupled superconductor in proximity with a quench-condensed ferromagnetic Ni film: A search for oscillating $T_c$ . <b>2002</b> , 65,		18
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999	Direct observation of the transition from the conventional superconducting state to the pi state in a controllable Josephson junction. <i>Physical Review Letters</i> , <b>2002</b> , 89, 207002	7.4	45
998	Re-entrant superconductivity in the superconductor/ferromagnet V/Fe layered system. <b>2002</b> , 66,		92
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995	Magnetization-orientation dependence of the superconducting transition temperature in the ferromagnet-superconductor-ferromagnet system: CuNi/Nb/CuNi. <i>Physical Review Letters</i> , <b>2002</b> , 89, 267001	7.4	274
994	Microwave-induced junction transition in a superconductor/quantum dot/superconductor structure. <b>2002</b> , 66,		9
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968	Anomalous transport properties of a paramagnetic NiTiO <sub>3</sub> + HTSC two-phase system representing a random Josephson junction network. <b>2002</b> , 75, 138-141	
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966	Nonsinusoidal current-phase relation in SFS Josephson junctions. <b>2002</b> , 75, 588-592	25
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961	Josephson plasma in Ru- and Fe-cuprates. <b>2003</b> , 388-389, 459-460	2
960	Proximity effect and spontaneous vortex phase in planar SF structures. <b>2003</b> , 77, 39-43	42
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958	Transport and magnetic properties of $Y_{3/4}Lu_{1/4}Ba_2Cu_3O_7 + Y_3Fe_5O_{12}$ composites representing a Josephson-type superconductor-ferrimagnet-superconductor weak-link network. <b>2003</b> , 45, 1866-1873	1
957	Oscillations of superconducting transition temperature in strong ferromagnet-superconductor bilayers. <b>2003</b> , 78, 555-559	14
956	$\pi$ -junction realization due to tunneling through a thin ferromagnetic layer. <b>2003</b> , 78, 583-586	17
955	Andreev bound states in ferromagnet-superconductor nanostructures. <b>2003</b> , 387, 7-12	8
954	Energy gap of ferromagnet-superconductor bilayers. <b>2003</b> , 397, 151-158	8
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950	Quantitative analysis of interface resistance in Co/Nb multilayers for normal and superconducting Nb. <b>2003</b> , 93, 8212-8214	7
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948	Josephson effect in double-barrier superconductor-ferromagnet junctions. <b>2003</b> , 68,	96
947	Proximity and Josephson effects in superconductor/antiferromagnetic Nb/ $Fe_{50}Mn_{50}$ heterostructures. <b>2003</b> , 68,	31
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945	Thermodynamic properties of ferromagnet/superconductor/ferromagnet nanostructures. <b>2003</b> , 67,	54
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940	Theoretical description of ferromagnetic $\bar{\nu}$ junctions near the critical temperature. <b>2003</b> , 67,	43
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938	Phase sensitive experiments in ferromagnetic-based Josephson junctions. <i>Physical Review Letters</i> , <b>2003</b> , 90, 167001	7-4 94
937	Rapid single-flux quantum logic using $\bar{\nu}$ shifters. <b>2003</b> , 94, 5405	99
936	Manifestation of triplet superconductivity in superconductor-ferromagnet structures. <b>2003</b> , 68,	96
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933	Static semifluxons in a long Josephson junction with $\bar{\nu}$ discontinuity points. <b>2003</b> , 68,	29
932	Odd triplet superconductivity in superconductor-ferromagnet multilayered structures. <i>Physical Review Letters</i> , <b>2003</b> , 90, 117006	7-4 208
931	Fabrication of nanoscale heterostructure devices with a focused ion beam microscope. <b>2003</b> , 14, 630-632	59
930	The effect of paramagnetic impurities in normal metal on the critical current in a network of S'N'S Josephson junctions in bulk $Y_{3/4}Lu_{1/4}Ba_2Cu_3O_{7-x}BaPb_{1-x}Fe_xO_3$ composites. <b>2003</b> , 16, 60-64	1
929	Mesoscopic effects in superconductor-ferromagnet-super-conductor junctions. <b>2003</b> , 62, 97-102	20
928	Critical current of asymmetric SFIS tunnel structures. <b>2003</b> , 29, 642-649	6

927	Magnetic-field-induced supercurrent enhancement in hybrid superconductor/magnet metal structures. <b>2004</b> , 68, 447-452		3
926	What is the value of the superconducting gap of a F/S/F trilayer?. <b>2004</b> , 65, 96-102		9
925	Vortex dynamics in Josephson ladders with $\pi$ -junctions. <b>2004</b> , 17, S355-S358		1
924	Superconductor/ferromagnet bi-layers: a comparison of s-wave and d-wave order parameters. <b>2004</b> , 16, 2071-2080		2
923	Spin screening of magnetic moments in superconductors. <b>2004</b> , 66, 111-117		50
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920	Stability of $\pi$ -junction configurations in ferromagnet-superconductor heterostructures. <b>2004</b> , 70,		23
919	Enhancement of the superconducting transition temperature in Nb/permalloy bilayers by controlling the domain state of the ferromagnet. <i>Physical Review Letters</i> , <b>2004</b> , 93, 057002	7.4	122
918	Intrinsic Josephson effects in the magnetic superconductor RuSr <sub>2</sub> GdCu <sub>2</sub> O <sub>8</sub> . <i>Physical Review Letters</i> , <b>2004</b> , 92, 117001	7.4	33
917	Analysis of ground states of $0\pi$ long Josephson junctions. <b>2004</b> , 69,		36
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912	Spontaneous supercurrent induced by ferromagnetic $\pi$ junctions. <i>Physical Review Letters</i> , <b>2004</b> , 92, 217001		111
911	Controllable Josephson current through a pseudospin-valve structure. <b>2004</b> , 84, 1153-1155		82
910	Layered ferromagnet-superconductor structures: The $\beta$ state and proximity effects. <b>2004</b> , 69,		51

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908	Exchange-induced ordinary reflection in a single-channel superconductor-ferromagnet-superconductor junction. <b>2004</b> , 70,	18
907	Effects of spin-orbit interaction on superconductor-ferromagnet heterostructures: Spontaneous electric and spin surface currents. <b>2004</b> , 80, 494-499	20
906	Microscopic theory of equilibrium properties of F/S/F trilayers with weak ferromagnets. <b>2004</b> , 39, 249-260	9
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904	Long length scale interaction between magnetism and superconductivity in La <sub>0.3</sub> Ca <sub>0.7</sub> MnO <sub>3</sub> /YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> superlattices. <b>2004</b> , 40, 479-482	6
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901	Proximity effects in ferromagnet/superconductor structures. <b>2004</b> , 402, 98-105	11
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898	Nb/NiCu bilayers in single and stacked superconductive tunnel junctions: preliminary results. <b>2004</b> , 272-276, E1103-E1105	
897	Ferromagnetic $\pi$ junctions. <b>2004</b> , 408-410, 606-609	2
896	Josephson current in superconductor/ferromagnet/superconductor junctions. <b>2004</b> , 325, 166-174	1
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892	Dynamics of semifluxons in Nb long Josephson 0- $\pi$ junctions. <i>Physical Review Letters</i> , <b>2004</b> , 92, 057005 7.4	90



891	Josephson current through a nanoscale magnetic quantum dot. <i>Physical Review Letters</i> , <b>2004</b> , 93, 047002-4	110
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851	Mesoscopic field and current compensator based on a hybrid superconductor-ferromagnet structure. <i>Physical Review Letters</i> , <b>2005</b> , 95, 147004	7-4	42
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844	Superconducting pi qubit with a ferromagnetic Josephson junction. <i>Physical Review Letters</i> , <b>2005</b> , 95, 097001	7-4	110
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833	Proximity effect in Nb <sub>4</sub> Au/Fe trilayers. <b>2005</b> , 71,		13
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822	Oscillations of induced magnetization in superconductor-ferromagnet heterostructures. <b>2006</b> , 73,		37
821	NiCu-based superconducting devices: fabrication and characterization. <b>2006</b> , 43, 1081-1087		1
820	Novel Josephson effect in triplet-superconductor-ferromagnet-triplet-superconductor junctions. <i>Physical Review Letters</i> , <b>2006</b> , 96, 047009	7.4	52

819	Critical current oscillations in strong ferromagnetic pi junctions. <i>Physical Review Letters</i> , <b>2006</b> , 97, 177003-4	173
818	Interactions of nanoscale ferromagnetic granules in a London superconductor. <b>2006</b> , 19, 381-384	19
817	Superconducting decay length in a ferromagnetic metal. <b>2006</b> , 83, 418-422	6
816	Anomalous proximity effect in superconducting oxide structures with an antiferromagnetic layer. <b>2006</b> , 84, 262-266	5
815	Supercurrent reversal in quantum dots. <b>2006</b> , 442, 667-70	322
814	Conventional magnetic superconductors: coexistence of singlet superconductivity and magnetic order. <b>2006</b> , 7, 4-21	14
813	Odd triplet superconductivity in superconductor/ferromagnet hybrid structures. <b>2006</b> , 7, 128-135	1
812	Nucleation of superconductivity and vortex matter in hybrid superconductor/ferromagnet nanostructures. <b>2006</b> , 7, 86-98	9
811	The effects of magnetization switching on the superconducting properties of S/F bilayers and F/S/F trilayers. <b>2006</b> , 7, 99-106	15
810	Proximity effect in superconductor/ferromagnet heterostructures. <b>2006</b> , 7, 107-115	3
809	Voltage driven coexistence of superconductivity and ferromagnetism in ferromagnet/d-wave superconductor/ferromagnet double tunnel junctions. <b>2006</b> , 434, 167-172	
808	Integration method for visualization of the suppressed Josephson supercurrent. <b>2006</b> , 435, 92-95	2
807	Theory of superconducting qubit with a ferromagnetic insulator. <b>2006</b> , 437-438, 136-139	15
806	SCENET roadmap for superconductor digital electronics. <b>2006</b> , 439, 1-41	50
805	Origin of spontaneous currents in a superconductor/ferromagnetic proximity system. <b>2006</b> , 437-438, 7-10	7
804	Fabrication of high quality ferromagnetic Josephson junctions. <b>2006</b> , 437-438, 349-352	28
803	Transport properties of Nb/PdNi bilayers. <b>2006</b> , 67, 412-415	1
802	Josephson effect in junctions of ferromagnetic superconductors with equal spin pairing symmetry. <b>2006</b> , 73,	22

801	Investigation of the Josephson coupling through a magnetoactive barrier (ferrimagnet, paramagnet) in $Y_3/4Lu_{1/4}Ba_2Cu_3O_7 + Y_3(Al_{1-x}Fe_x)O_{12}$ composites. <b>2006</b> , 48, 2046-2055		
800	Flip-flopping fractional flux quanta. <b>2006</b> , 312, 1495-7		91
799	Vortex decoupling in LCMO/YBCO superlattices. <b>2006</b> , 67, 387-390		5
798	Spin-polarized proximity effect in superconducting junctions. <b>2006</b> , 7, 136-149		12
797	The ruthenocuprates: natural superconductor/ferromagnet multilayers. <b>2006</b> , 7, 68-85		34
796	Energy variation of DOS in spin-valve structure with superconducting electrodes. <b>2006</b> , 300, e247-e250		
795	Andreev spectrum and supercurrent in a multilayer ferromagnetic clean Josephson junction. <b>2006</b> , 39, 9861-9880		3
794	Multiple-barrier and nanoscale superconducting devices. <b>2006</b> , 19, S132-S137		12
793	Andreev spectroscopy of point contacts between a low-temperature superconductor and manganite. <b>2006</b> , 32, 824-831		9
792	Large Magnetoresistance at Oxide $La_{0.7}Ca_{0.3}MnO_3$ and $YBa_2Cu_3O_7$ Interfaces. <b>2006</b> , 45, 2545-2553		
791	Thickness dependence of the Josephson ground States of superconductor-ferromagnet-superconductor junctions. <i>Physical Review Letters</i> , <b>2006</b> , 96, 197003	7-4	226
790	Josephson interferometry and Shapiro step measurements of superconductor-ferromagnet-superconductor junctions. <b>2006</b> , 74,		62
789	0- $\pi$ Josephson tunnel junctions with ferromagnetic barrier. <i>Physical Review Letters</i> , <b>2006</b> , 97, 247001	7-4	133
788	Controllable junction with magnetic nanostructures. <b>2006</b> , 73,		11
787	Nonmonotonic temperature dependence of critical current in diffusive d-wave junctions. <b>2006</b> , 73,		14
786	Evidence for crossed Andreev reflections in bilayers of (100) $YBa_2Cu_3O_7$ and the itinerant ferromagnet $SrRuO_3$ . <b>2006</b> , 74,		37
785	Spin diffusion versus proximity effect at ferromagnet/superconductor $La_{0.7}Ca_{0.3}MnO_3/YBa_2Cu_3O_7$ interfaces. <b>2006</b> , 73,		51
784	Fiske modes in junctions. <b>2006</b> , 74,		13

783	High quality ferromagnetic 0 and $\pi$ Josephson tunnel junctions. <b>2006</b> , 89, 122511		104
782	0 and $\pi$ phase Josephson coupling through an insulating barrier with magnetic impurities. <b>2006</b> , 74,		27
781	Josephson current in a ferromagnetic semiconductor/semiconductor/ferromagnetic semiconductor junction with superconducting contacts. <b>2006</b> , 100, 063901		2
780	Huge nonequilibrium magnetoresistance in hybrid superconducting spin valves. <b>2006</b> , 89, 022505		11
779	Superconducting $\pi$ qubit with three Josephson junctions. <b>2006</b> , 88, 132501		30
778	Resonant amplification of the Andreev process in ballistic Josephson junctions. <b>2006</b> , 73,		9
777	Interplay between superconductivity and ferromagnetism in epitaxial Nb(110)/Au(111)/Fe(110) trilayers. <b>2006</b> , 73,		14
776	Josephson coupling through ferromagnetic heterojunctions with noncollinear magnetizations. <b>2006</b> , 74,		51
775	Multiple 0 $\pi$ transitions in superconductor/insulator/ferromagnet/superconductor Josephson tunnel junctions. <b>2006</b> , 74,		53
774	Proximity effect in planar superconducting tunnel junctions containing Nb $\pi$ /i>Cu superconductor/ferromagnet bilayers. <b>2006</b> , 73,		30
773	Competition between $\pi$ coupling and Fulde-Ferrell-Larkin-Ovchinnikov modulation in a periodic array of ferromagnetic-superconducting bilayers of atomic thickness. <b>2006</b> , 73,		5
772	Localized modes and phonon scattering of a lattice kink. <b>2006</b> , 73, 026608		3
771	Magnetization-dependent shift in ferromagnet/superconductor/ferromagnet trilayers with a strong ferromagnet. <i>Physical Review Letters</i> , <b>2006</b> , 96, 037004	7-4	155
770	0- $\pi$ transitions in Josephson junctions with antiferromagnetic interlayers. <i>Physical Review Letters</i> , <b>2006</b> , 96, 117005	7-4	30
769	Observation of standard spin-switch effects in ferromagnet/superconductor/ferromagnet trilayers with a strong ferromagnet. <b>2006</b> , 74,		58
768	Properties of superconductor/ferromagnet structures with spin-dependent scattering. <b>2006</b> , 73,		63
767	Observation of periodic $\pi$ phase shifts in ferromagnet-superconductor multilayers. <b>2006</b> , 73,		83
766	Resonant proximity effect in normal metal/diffusive ferromagnet/superconductor junctions. <b>2006</b> , 73,		38

765	First-order phase transitions in ferromagnet/superconductor layered structures. <b>2006</b> , 73,	7
764	Macroscopic quantum dynamics of $\pi$ junctions with ferromagnetic insulators. <b>2006</b> , 74,	39
763	Enhanced superconducting proximity effect in clean ferromagnetic domain structures: A quasiclassical Green's function approach. <b>2006</b> , 74,	9
762	ANDREEV SPECTRUM AND SUPERCURRENT IN A DOUBLE FERROMAGNET CLEAN JOSEPHSON JUNCTION. <b>2007</b> , 21, 505-529	2
761	JOSEPHSON STATE DUE TO SPIN-ACTIVE JUNCTION INTERFACE. <b>2007</b> , 21, 3395-3397	
760	Transport and Magnetic Properties of Strong Ferromagnetic $\pi$ -Junctions. <b>2007</b> , 17, 641-644	5
759	Millimeter Wave Study of Hybrid Superconducting Heterostructures with Magnetic Active Interlayer. <b>2007</b> ,	
758	Ballistic transport in ferromagnet/superconductor/ferromagnet trilayers with arbitrary orientation of magnetisations. <b>2007</b> , 9, 264-264	6
757	A diagrammatic approach for a clean multiferromagnetic Josephson junction. <b>2007</b> , 40, 12829-12862	1
756	Charge imbalance, crossed Andreev reflection and elastic co-tunnelling in ferromagnet/superconductor/normal-metal structures. <b>2007</b> , 9, 116-116	48
755	$0\pi$ transition in superconductor-ferromagnet-superconductor junctions with strongly spin-dependent scattering. <b>2007</b> , 75,	6
754	Thermodynamics and phase diagrams of layered superconductor/ferromagnet nanostructures. <b>2007</b> , 75,	27
753	Fine structure of the local pseudogap and Fano effect for superconducting electrons near a zigzag graphene edge. <b>2007</b> , 76,	19
752	Spin-dependent magnetoresistance of ferromagnet/superconductor/ferromagnet $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3/\text{Ba}_2\text{Cu}_3\text{O}_7/\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ trilayers. <b>2007</b> , 75,	35
751	Theory of the Josephson effect in unconventional superconducting junctions with diffusive barriers. <b>2007</b> , 75,	32
750	Depairing current behavior in superconducting $\text{NbBd}_{81}\text{Ni}_{19}$ bilayers. <b>2007</b> , 75,	24
749	Visualization of ferromagnetic domains in $\text{ErNi}_2\text{B}_2\text{C}$ single crystals: Weak ferromagnetism and its coexistence with superconductivity. <b>2007</b> , 76,	7
748	Josephson effect in thin-film superconductor/insulator/superconductor junctions with misaligned in-plane magnetic fields. <b>2007</b> , 76,	11



747	Scattering by magnetic and spin-orbit impurities and the Josephson current in superconductor-ferromagnet-superconductor junctions. <b>2007, 75,</b>		23
746	Spectroscopy and critical temperature of diffusive superconducting/ferromagnetic hybrid structures with spin-active interfaces. <b>2007, 76,</b>		35
745	RSFQ Circuitry Using Intrinsic $\pi$ -Phase Shifts. <b>2007, 17, 659-663</b>		25
744	Magnetic and Transport Properties of Nb/PdNi Bilayers. <b>2007, 17, 3529-3532</b>		5
743	Odd-frequency pairs and Josephson current through a strong ferromagnet. <b>2007, 76,</b>		108
742	High-field vortices in Josephson junctions with alternating critical current density. <b>2007, 76,</b>		3
741	Signatures of retroreflection and induced triplet electron-hole correlations in ferromagnet $\bar{c}$ -wave-superconductor structures. <b>2007, 75,</b>		43
740	Superconducting critical temperature and singlet and triplet pair functions of superconductor/normal-metal/ferromagnet trilayers. <b>2007, 75,</b>		4
739	Upper critical fields and interface transparency in superconductor/ferromagnet bilayers. <b>2007, 76,</b>		23
738	Switching the sign of Josephson current through Aharonov-Bohm interferometry. <b>2007, 75,</b>		21
737	Josephson effect in hybrid oxide heterostructures with an antiferromagnetic layer. <i>Physical Review Letters</i> , <b>2007, 99, 017004</b>	7.4	21
736	Fully developed triplet proximity effect. <i>Physical Review Letters</i> , <b>2007, 98, 077003</b>	7.4	166
735	Phase states of multiterminal mesoscopic normal-metal-superconductor structures. <i>Physical Review Letters</i> , <b>2007, 99, 217003</b>	7.4	1
734	Geometric $\pi$ Josephson junction in d-wave superconducting thin films. <b>2007, 91, 192502</b>		14
733	Quasiclassical Green's function theory of the Josephson effect in chiral p-wave superconductor/diffusive normal metal/chiral p-wave superconductor junctions. <b>2007, 75,</b>		15
732	Long range triplet Josephson effect through a ferromagnetic trilayer. <b>2007, 76,</b>		187
731	Manifestation of the odd-frequency spin-triplet pairing state in diffusive ferromagnet/superconductor junctions. <b>2007, 75,</b>		95
730	Nonequilibrium spin-dependent phenomena in mesoscopic superconductor/normal metal tunnel structures. <b>2007, 76,</b>		18

729	Interface resistance and transparency in ferromagnet/superconductor $\text{Co}/\text{Nb}_x\text{Ti}_{1-x}$ multilayers ( $x=1, 0.6, \text{ and } 0.4$ ). <b>2007</b> , 76,		5
728	Vortex states induced by proximity effect in hybrid ferromagnet-superconductor systems. <b>2007</b> , 76,		14
727	High-velocity instabilities in the vortex lattice of Nb/permalloy bilayers. <b>2007</b> , 76,		21
726	Penetration of Andreev bound states into the ferromagnet in a $\text{SrRuO}_3/\text{I}10\text{YBa}_2\text{Cu}_3\text{O}_7$ bilayer: A scanning tunneling spectroscopy study. <b>2007</b> , 76,		12
725	Maximum supercurrent in Josephson junctions with alternating critical current density. <b>2007</b> , 76,		
724	Decoherence in a superconducting flux qubit with a $\pi$ junction. <b>2007</b> , 76,		25
723	Zero to $\pi$ transition in superconductor-ferromagnet-superconductor junctions. <b>2007</b> , 76,		87
722	Coherence effects in S/I/N/I/FS tunnel junctions. <b>2007</b> , 16, 3514-3519		6
721	Role of Magnetic Scattering in $0/\pi$ Transitions in a Superconductor/Ferromagnetic Metal/Superconductor Junction. <b>2007</b> , 76, 054705		16
720	Inhomogeneous superconductivity in superconductor/ferromagnet heterostructures. <b>2007</b> , 460-462, 238-241		4
719	Spin-flip scattering and nonideal interfaces in dirty ferromagnet/superconductor junctions. <b>2007</b> , 76,		11
718	Josephson current in a superconductor-ferromagnet junction with two noncollinear magnetic domains. <b>2007</b> , 75,		37
717	Stability Analysis of $\pi$ Kinks in a $0-\pi$ Josephson Junction. <b>2007</b> , 6, 99-141		11
716	Josephson junctions with second harmonic in the current-phase relation: Properties of $\pi$ junctions. <b>2007</b> , 76,		99
715	Josephson effect due to odd-frequency pairs in diffusive half metals. <i>Physical Review Letters</i> , <b>2007</b> , 98, 107002	7-4	141
714	Hysteretic vortex pinning in superconductor-ferromagnet nanocomposites. <i>Physical Review Letters</i> , <b>2007</b> , 98, 117003	7-4	44
713	Critical current $0-\pi$ transition in designed Josephson Quantum Dot junctions. <b>2007</b> , 7, 2441-5		111
712	Josephson current in a superconductor-ferromagnet-superconductor junction with in-plane ferromagnetic domains. <b>2007</b> , 76,		28

711	Magnetic vortex pinning in superconductor/ferromagnet nanocomposites. <b>2007</b> , 20, S136-S140	9
710	Josephson effect due to the long-range odd-frequency triplet superconductivity in SFS junctions with Néel domain walls. <b>2007</b> , 75,	84
709	Time dilation of a bound half-fluxon pair in a long Josephson junction with a ferromagnetic insulator. <i>Physical Review Letters</i> , <b>2007</b> , 99, 207004	7.4 7
708	Phase diagrams of ferromagnet-superconductor multilayers with misaligned exchange fields. <b>2007</b> , 75,	24
707	Quasiclassical boundary conditions for a contact of two metals. <b>2007</b> , 41, 152-162	16
706	Proximity effect in normal metal/ferromagnet/d-wave superconductor structures. <b>2007</b> , 451, 55-58	2
705	Supercurrent pumping by ferromagnetic resonance in ferromagnetic Josephson junctions. <b>2007</b> , 463-465, 989-992	
704	Proximity effect between superconductors and ferromagnets. <b>2007</b> , 460-462, 322-326	3
703	0- and $\pi$ -states in Josephson coupling through magnetic layers. <b>2007</b> , 463-465, 23-26	
702	Temperature dependence of Josephson current in a superconductor/ferromagnet/superconductor junction. <b>2007</b> , 460-462, 1323-1324	2
701	Josephson current through a diffusive half metal. <b>2007</b> , 463-465, 19-22	
700	Effect of magnons on the 0 $\pi$ transition in a superconductor/half-metallic ferromagnet/superconductor junction. <b>2007</b> , 463-465, 198-201	3
699	Macroscopic quantum tunneling in Josephson junctions with insulating ferromagnets and its application to phase qubits. <b>2007</b> , 40, 386-389	11
698	Proximity effect in ferromagnet/triplet p-wave superconductor structures. <b>2007</b> , 362, 6-10	5
697	Spin-filter effect in normal metal/ferromagnetic insulator/normal metal/superconductor structures. <b>2007</b> , 363, 28-32	3
696	Theory of Josephson effect in d-wave superconductor/diffusive ferromagnet/d-wave superconductor junctions. <b>2007</b> , 310, 498-500	2
695	Theory of 0 $\pi$ transition in a superconductor/ferromagnet/superconductor junction. <b>2007</b> , 310, 2456-2458	1
694	Effective decrease in the exchange energy in S-(FN)-S Josephson structures. <b>2007</b> , 85, 286-291	18

693	Spin-filtering effect and proximity effect in normal metal/ferromagnetic insulator/normal metal/superconductor junctions. <b>2007</b> , 315, 77-81		1
692	Supercurrent pumping in Josephson junctions with a half-metallic ferromagnet. <i>Physical Review Letters</i> , <b>2007</b> , 99, 057003	7-4	34
691	Josephson current through a ferromagnetic semiconductor/semiconductor/ferromagnetic semiconductor structure. <b>2007</b> , 56, 83-91		2
690	Controllable $\pi$ junction in a Josephson quantum-dot device with molecular spin. <b>2007</b> , 57, 279-289		27
689	0- $\pi$ oscillations in nanostructured Nb/Fe/Nb Josephson junctions. <b>2007</b> , 58, 123-126		22
688	Triplet pairing states with equal spins in ferromagnet/superconductor heterojunctions for noncollinear magnetizations. <b>2007</b> , 60, 281-287		3
687	Odd triplet superconductivity in superconductor ferromagnet structures: a survey. <b>2007</b> , 89, 599-601		16
686	Half-Integer Flux Quantization in a Superconducting Loop with a Ferromagnetic $\pi$ Junction. <b>2007</b> , 147, 431-439		
685	Symmetries of Pairing Correlations in Superconductor/Ferromagnet Nanostructures. <b>2007</b> , 147, 457-476		149
684	Theory of Josephson Effect in Sr <sub>2</sub> RuO <sub>4</sub> /Diffusive Ferromagnet/Sr <sub>2</sub> RuO <sub>4</sub> Junctions. <b>2007</b> , 148, 887-891		
683	Appearance of an inhomogeneous superconducting state in La <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> -YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> -La <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> trilayers. <b>2007</b> , 69, 267-275		3
682	Theoretical study of ac Josephson effect in a double barrier Josephson junction. <b>2008</b> , 468, 1907-1909		1
681	Proximity effects and finite-quasiparticle-lifetime effects in normal metal/ferromagnetic semiconductor/superconductor structures. <b>2008</b> , 468, 2288-2291		
680	Quasiparticle density of states in a half metal in the presence of odd-frequency Cooper pairs. <b>2008</b> , 205, 1023-1025		3
679	The electro-magnetostatic Aharonov-Bohm effect as a tool to tune the Josephson current. <b>2008</b> , 40, 2091-2092		
678	Josephson current in ferromagnetic d-wave superconductor/ferromagnetic d-wave superconductor junction. <b>2008</b> , 372, 1327-1332		5
677	Fully frustrated Josephson junction ladders with Mobius boundary conditions as topologically protected qubits. <b>2008</b> , 372, 2464-2473		5
676	Topologically protected qubits as minimal Josephson junction arrays with non-trivial boundary conditions: A proposal. <b>2008</b> , 372, 6965-6974		2

675	Josephson current through a half metal at low temperatures. <b>2008</b> , 69, 3247-3249	3
674	Magnetic dependent proximity effects of superconductivity and ferromagnetism in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> /La <sub>1-x</sub> CaxMnO <sub>3</sub> bilayers. <b>2008</b> , 148, 545-549	15
673	Josephson effect in superconductor/ferromagnetic semiconductor/superconductor junctions. <b>2008</b> , 403, 95-102	9
672	Static and dynamic properties of 0, $\pi$ and 0 $\pi$ ferromagnetic Josephson tunnel junctions. <b>2008</b> , 77,	61
671	Superconductors as spin sources for spintronics. <b>2008</b> , 77,	54
670	Niobium step-edge superconducting junctions. <b>2008</b> , 21, 045013	2
669	Features of magnetization reversal in LCMO/YBCO heterostructures. <b>2008</b> , 72, 540-542	3
668	Change in the sign of the magnetoresistance effect in bilayer superconductor/ferromagnet structures under change in the type of the domain structure in the ferromagnet. <b>2008</b> , 87, 175-180	14
667	Critical current in S-FNF-S Josephson structures with the noncollinear magnetization vectors of ferromagnetic films. <b>2008</b> , 87, 570-576	19
666	Resistive transitions in Nb/Cu <sub>0.41</sub> Ni <sub>0.59</sub> /Nb trilayers. <b>2008</b> , 88, 375-379	8
665	Observation of the magnetic domain structure in Cu <sub>0.47</sub> Ni <sub>0.53</sub> thin films at low temperatures. <b>2008</b> , 88, 758-761	27
664	Imaging spontaneous currents in superconducting arrays of $\pi$ junctions. <b>2008</b> , 4, 32-36	31
663	Long-range Josephson coupling through ferromagnetic graphene. <b>2008</b> , 78,	34
662	Two-band superconductor magnesium diboride. <b>2008</b> , 71, 116501	163
661	Mobile $\pi$ kinks and half-integer zero-field-like steps in highly discrete alternating 0 $\pi$ Josephson junction arrays. <b>2008</b> , 21, 045003	1
660	Spin Current in Metals and Superconductors. <b>2008</b> , 77, 031009	127
659	Superfluid density of superconductor-ferromagnet bilayers. <b>2008</b> , 103, 07C701	18
658	Magnetic and transport properties of superconductor/ferromagnet bilayer microbridges. <b>2008</b> , 103, 07C711	4

657	Asymmetric ferromagnet-superconductor-ferromagnet switch. <b>2008</b> , 77,	18
656	Role of interface transparency and spin-dependent scattering in diffusive ferromagnet/superconductor heterostructures. <b>2008</b> , 77,	35
655	Josephson current in diffusive multilayer superconductor/ferromagnet/superconductor junctions. <b>2008</b> , 78,	39
654	Interplay of ferromagnetism and triplet superconductivity in a Josephson junction. <b>2008</b> , 77,	44
653	Odd triplet superconductivity in a superconductor/ferromagnet structure with a narrow domain wall. <b>2008</b> , 78,	43
652	Josephson effect through an isotropic magnetic molecule. <i>Physical Review Letters</i> , <b>2008</b> , 101, 146804	7-4 25
651	Designing arrays of Josephson junctions for specific static responses. <b>2008</b> , 24, 025022	4
650	Zeeman effects on Josephson current in d-wave superconductor/d-wave superconductor junctions. <b>2008</b> , 17, 1893-1901	2
649	Ferromagnetic Resonance Induced Josephson Current in a Superconductor/Ferromagnet/Superconductor Junction. <b>2008</b> , 77, 053707	15
648	Phase coherence of the electron and hole in a ferromagnetic film in proximity with a superconductor. <b>2008</b> , 17, 4627-4634	2
647	Semifluxons in superconductivity and cold atomic gases. <b>2008</b> , 10, 045020	5
646	A diagrammatic approach for a clean double-barrier ferromagnetic Josephson junction. <b>2008</b> , 41, 455301	3
645	Pi-phase shift Josephson structures. <b>2008</b> , 21, 034011	34
644	Proximity-effect-assisted decay of spin currents in superconductors. <b>2008</b> , 84, 57008	25
643	Magnetic anisotropy in ferromagnetic Josephson junctions. <b>2008</b> , 93, 052502	21
642	Superconducting spin valves based on epitaxial Fe/V superlattices. <b>2008</b> , 78,	45
641	Electron transport in a ferromagnet-superconductor junction on graphene. <b>2008</b> , 78,	55
640	Properties of tunnel Josephson junctions with a ferromagnetic interlayer. <b>2008</b> , 77,	46

639	Asymmetric critical current of niobium microbridges with ferromagnetic stripe. <b>2008</b> , 93, 172507		6
638	Spin-orbital coupling effect on Josephson current through a superconductor heterojunction. <b>2008</b> , 103, 103905		17
637	Nonsinusoidal current-phase relation in strongly ferromagnetic and moderately disordered SFS junctions. <b>2008</b> , 78,		23
636	Nonequilibrium transport in mesoscopic multi-terminal SNS Josephson junctions. <b>2008</b> , 77,		20
635	Josephson effects in d-wave superconductor junctions with magnetic interlayers. <b>2008</b> , 77,		17
634	Controllable 0- $\pi$ transition in a superconducting graphene-nanoribbon junction. <i>Physical Review Letters</i> , <b>2008</b> , 101, 187002	7.4	25
633	Lattice-mismatch-induced granularity in CoPt-NbN and NbN-CoPt superconductor-ferromagnet heterostructures: Effect of strain. <b>2008</b> , 77,		5
632	Width of the 0- $\pi$ phase transition in diffusive magnetic Josephson junctions. <b>2008</b> , 78,		3
631	Proximity effect between an unconventional superconductor and a ferromagnet with spin bandwidth asymmetry. <b>2008</b> , 78,		32
630	Supercurrent switch in graphene $\pi$ junctions. <i>Physical Review Letters</i> , <b>2008</b> , 100, 187004	7.4	76
629	0- $\pi$ Transitions in a superconductor/chiral ferromagnet/superconductor junction induced by a homogeneous cycloidal spiral. <i>Physical Review Letters</i> , <b>2008</b> , 100, 077003	7.4	39
628	Mobile fluxon qubits in a long superconductor-ferromagnet-superconductor Josephson junction. <b>2008</b> , 97, 012326		1
627	Phase engineering techniques in superconducting quantum electronics. <b>2008</b> , 97, 012196		5
626	Control of Josephson current by Aharonov-Casher phase in a Rashba ring. <b>2009</b> , 80,		7
625	Possibility of a long-range proximity effect in a ferromagnetic nanoparticle. <b>2009</b> , 79,		11
624	Josephson tunnel junctions with a strong ferromagnetic interlayer. <b>2009</b> , 79,		73
623	Critical current behavior in Josephson junctions with the weak ferromagnet PdNi. <b>2009</b> , 79,		70
622	Spin-dependent boundary conditions for isotropic superconducting Green's functions. <b>2009</b> , 80,		72

621	Theory of fractional vortex escape in a long Josephson junction. <b>2009</b> , 80,		8
620	Domain-wall enhancement of superconductivity in superconductor/ferromagnet hybrids: Case of weak ferromagnets. <b>2009</b> , 80,		19
619	Magnetic screening properties of superconductor-ferromagnet bilayers. <b>2009</b> , 80,		12
618	Josephson current in ballistic heterostructures with spin-active interfaces. <b>2009</b> , 79,		21
617	Current-phase relation in a Josephson junction coupled with a magnetic dot. <b>2009</b> , 80,		6
616	Existence and stability analysis of finite $\Phi_0$ Josephson junctions. <b>2009</b> , 80,		2
615	Strong ferromagnetic Josephson devices with optimized magnetism. <b>2009</b> , 95, 192509		24
614	Planar S-(S/F)-S Josephson junctions induced by the inverse proximity effect. <b>2009</b> , 95, 062501		8
613	Reduced Probability of Noise Introduced Malfunction in RSFQ Circuits by Implementing Intrinsic $\pi$ -Phase Shifter. <b>2009</b> , 19, 621-625		8
612	Little-Parks oscillations in hybrid ferromagnet-superconductor systems. <b>2009</b> , 79,		16
611	Measurement of spin memory lengths in PdNi and PdFe ferromagnetic alloys. <b>2009</b> , 80,		20
610	Nonmonotonic behavior of the anisotropy coefficient in superconductor-ferromagnet-superconductor trilayers. <b>2009</b> , 80,		16
609	Josephson effect in superconductor/ferromagnet-normal/superconductor structures. <b>2009</b> , 79,		15
608	Critical current of a Josephson junction containing a conical magnet. <b>2009</b> , 79,		37
607	Spin-dependent cooper pair phase and pure spin supercurrents in strongly polarized ferromagnets. <i>Physical Review Letters</i> , <b>2009</b> , 102, 227005	7.4	81
606	Charge transport and quantum phase transitions in singlet-superconductor/ferromagnet/singlet-superconductor junctions. <b>2009</b> , 79,		6
605	Temperature-induced $0\pi$ -coexistence in clean superconductor-ferromagnet-superconductor Josephson junctions. <b>2009</b> , 79,		3
604	Observation of Josephson coupling through an interlayer of antiferromagnetically ordered chromium. <b>2009</b> , 80,		6



603	Robust coupling of superconducting order parameter in a mesoscale NbN/Be/NbN epitaxial structure. <b>2009</b> , 95, 042507		2
602	Imaging of order parameter induced pi phase shifts in cuprate superconductors by low-temperature scanning electron microscopy. <i>Physical Review Letters</i> , <b>2009</b> , 103, 067011	7-4	12
601	Inverse proximity effect in superconductor-ferromagnet bilayer structures. <i>Physical Review Letters</i> , <b>2009</b> , 102, 087004	7-4	75
600	NUMERICAL STUDY OF JUNCTION USING SPIN FILTERING BARRIERS. <b>2009</b> , 23, 4320-4328		3
599	Josephson Effect in FS/I/N/I/FS Tunnel Junctions. <b>2009</b> , 52, 721-725		2
598	Proximity effect in atomic-scaled hybrid superconductor/ferromagnet structures: Crucial role of electron spectra. <b>2009</b> , 86, 67002		9
597	Josephson supercurrent with spin-equal pairing through a half-metallic link. <b>2009</b> , 21, 385703		9
596	Josephson tunnel junctions with ferromagnetic Fe <sub>0.75</sub> Co <sub>0.25</sub> barriers. <b>2009</b> , 42, 075005		11
595	Upper critical magnetic fields in superconductor/ferromagnet hybrids. <b>2009</b> , 21, 254201		
594	Fluxons interactions in a Josephson junction with a phase-shift. <b>2009</b> , 373, 1387-1391		
593	Josephson effect between p-wave superconductors with different orbital pairing symmetries. <b>2009</b> , 373, 3567-3571		1
592	An experimental setup for obtaining metallic multilayer coatings with layers of nanometer thickness. <b>2009</b> , 52, 727-730		2
591	Ferromagnet/superconductor heterostructures in graphene. <b>2009</b> , 149, 1106-1110		3
590	Effect of hybridization on the Josephson current through Eu-chalcogenides. <b>2009</b> , 469, 1621-1623		4
589	Supercurrent and its Fano effect in a Josephson Aharonov-Bohm ring. <b>2009</b> , 67, 551-557		8
588	Sudden critical current drops induced in S/F structures. <b>2009</b> , 68, 73-77		7
587	Controlled Junctions in a T-shaped double quantum dot system. <b>2009</b> , 70, 185-191		5
586	Quantum transport in ballistic s-wave superconductors with interband coupling: Conductance spectra, crossed Andreev reflection, and Josephson current. <b>2009</b> , 80,		55

585	Nucleation of superconductivity and vortex matter in superconductor/ferromagnet hybrids. <b>2009</b> , 22, 053001	185
584	Polar Kerr effect as probe for time-reversal symmetry breaking in unconventional superconductors. <b>2009</b> , 11, 055060	94
583	Sawtooth current-phase relation of a superconducting trilayer system described using Ohta's formalism. <b>2009</b> , 79,	16
582	Nanoscale Phenomena. <b>2009</b> ,	5
581	Tunneling transport in a graphene-based ferromagnet/insulator/d-wave superconductor junction. <b>2009</b> , 87, 27008	18
580	Nb-PtNi-Nb Josephson junctions made by 3D FIB nano-sculpturing. <b>2009</b> , 150, 052062	2
579	PNR Studies of Proximity and Coupling Effects in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> /La <sub>2</sub> /3Ca <sub>1</sub> /3MnO <sub>3</sub> Superlattices. <b>2009</b> , 20, 13-16	
578	Theory of superconducting and magnetic proximity effect in S/F structures with inhomogeneous magnetization textures and spin-active interfaces. <b>2009</b> , 79,	51
577	0- $\pi$ transition in magnetic triplet superconductor Josephson junctions. <i>Physical Review Letters</i> , <b>2009</b> , 103, 147001	7-4 41
576	Rashba Spin Orbital Coupling Effect on the Conductance of Two-Dimensional Electron Gas/Insulator/Noncentrosymmetric Superconductor Junction. <b>2009</b> , 78, 084706	2
575	Temperature-induced variations of magnetization kinetics of FeNi in the FM/SC and FM/AFM heterostructures. <b>2009</b> , 150, 042224	1
574	Spin-polarized carrier injection effect in ferromagnetic semiconductor/diffusive semiconductor/superconductor junctions. <b>2009</b> , 150, 022085	1
573	Phase and spin dynamics in a superconductor/ferromagnet/superconductor junction. <b>2009</b> , 150, 052069	
572	Transport properties of Nb/PdNi bilayers and Nb/PdNi/Nb Josephson junctions. <b>2009</b> , 150, 052155	
571	High-field vortices in dense chains of 0- and $\pi$ -shifted Josephson junctions. <b>2009</b> , 150, 052171	
570	Sign Reversal of AC Josephson Current in a Ferromagnetic Josephson Junction. <b>2009</b> , 78, 014708	2
569	Finite size effects on magnetic flux penetration into YBCO/LSMO hybrids. <b>2010</b> , 234, 012046	
568	BACK MATTER. <b>2010</b> , 191-217	

- 567 Theory of quantum transport in Josephson junctions with a ferromagnetic insulator. **2010**, 36, 915-919 6
- 566 Superconducting current in hybrid structures with an antiferromagnetic interlayer. **2010**, 110, 336-344 7
- 565 Contribution of the triplet component of the supercurrent-carrying density of states to the Josephson current in a nonequilibrium superconductor/ferromagnet/superconductor junction. **2010**, 52, 2223-2227
- 564 Josephson coupling and Fiske dynamics in ferromagnetic tunnel junctions. **2010**, 78, 509-523 23
- 563 Controlled injection of spin-triplet supercurrents into a strong ferromagnet. **2010**, 329, 59-61 379
- 562 Superfluid-ferromagnet-superfluid junction and the  $\phi$  phase in a superfluid Fermi gas. **2010**, 82, 3
- 561 Sequence of phase transitions induced in an array of Josephson junctions by their crossover to  $\phi$  state. **2010**, 89, 17004 4
- 560 A single flux quantum circuit with a ferromagnet-based Josephson junction. **2010**, 23, 045032 46
- 559 Spin Screening of Magnetization Due to Inverse Proximity Effect in Superconducting/Ferromagnetic Bilayers. **2010**, 273-280
- 558 Application of nano-scale Josephson junction as phase sensitive detector for analysis of vortex states in mesoscopic superconductors. **2010**, 470, 890-892 4
- 557 New aspects of microwave properties of Nb in the mixed state. **2010**, 470, 901-903 19
- 556 Thermally induced  $0\phi$  phase transition in Josephson junctions through a ferromagnetic oxide film. **2010**, 470, 1496-1498 3
- 555 Theory of Josephson transport through spintronics nano-structures. **2010**, 42, 1010-1013 8
- 554 Spin-dependent proximity effects in ferromagnetic semiconductor/superconductor structures. **2010**, 322, 2801-2805 1
- 553 Hybrid superconductor-quantum dot devices. **2010**, 5, 703-11 283
- 552 Integer and half-integer flux-quantum transitions in a niobium-iron pnictide loop. **2010**, 6, 260-264 120
- 551 Implementation of superconductor/ferromagnet/ superconductor  $\phi$  shifters in superconducting digital and quantum circuits. **2010**, 6, 593-597 154
- 550 Anisotropy of p-wave Josephson junction. **2010**, 19, 087401

549	Coexistence of ferromagnetism and superconductivity in normal metal/superconductor/ferromagnet structures. <b>2010</b> , 19, 087203	4
548	Proximity and reversal magnetoresistance behaviour in the oxide heterostructure of cuprate and manganite. <b>2010</b> , 23, 034010	5
547	Effect of transparency on Josephson junction between s+g-wave superconductors. <b>2010</b> , 19, 107303	2
546	Equal-spin triplet p-wave pairing in Nb/Ni proximity effect bilayers. <b>2010</b> , 81,	5
545	Visualizing supercurrents in ferromagnetic Josephson junctions with various arrangements of 0 and $\pi$ segments. <b>2010</b> , 81,	21
544	Josephson effect in superconductor/ferromagnet structures with a complex weak-link region. <b>2010</b> , 81,	15
543	Spin-triplet supercurrent through inhomogeneous ferromagnetic trilayers. <b>2010</b> , 82,	39
542	Long-range singlet proximity effect in ferromagnetic nanowires. <b>2010</b> , 82,	12
541	Tunable 0- $\pi$ transition by spin precession in Josephson junctions. <b>2010</b> , 96, 182505	5
540	Magnetic interference patterns in 0 $\pi$ superconductor/insulator/ferromagnet/superconductor Josephson junctions: Effects of asymmetry between 0 and $\pi$ regions. <b>2010</b> , 81,	41
539	Reentrant superconductivity in superconductor/ferromagnetic-alloy bilayers. <b>2010</b> , 82,	38
538	Coherent superpositions of single semifluxon states in a 0 $\pi$ Josephson junction. <b>2010</b> , 81,	4
537	Triplet contribution to the Josephson current in the nonequilibrium superconductor/ferromagnet/superconductor junction. <b>2010</b> , 82,	9
536	Josephson effect through a multilevel quantum dot near a singlet-triplet transition. <b>2010</b> , 81,	17
535	Flux-closure pattern in a two-dimensional NbN/Fe superconductor-ferromagnet nanocomposite: Anisotropy of the angular magnetoresistance. <b>2010</b> , 108, 103916	
534	A tunneling Hamiltonian theory of 0- $\pi$ transition ind-wave superconductor/ferromagnetic-insulator heterostructures. <b>2010</b> , 248, 012039	
533	Spintronics in metallic superconductor/ferromagnet hybrid structures. <b>2010</b> , 101, 164-174	2
532	The influence of the spin-dependent phases of tunneling electrons on the conductance of a point ferromagnet/isolator/d-wave superconductor contact. <b>2010</b> , 22, 185703	

531	Technological Challenges And Scientific Opportunities Of Complex Oxide Interface Research. <b>2010,</b>	
530	Zero phase difference supercurrent in ferromagnetic Josephson junctions. <b>2010, 22, 445701</b>	15
529	Oriental phase transitions of a lattice of magnetic dots embedded in a London-type superconductor. <b>2010, 23, 105011</b>	11
528	Superconducting spintronics: Spin-polarized transport in superconducting junctions with ferromagnetic semiconducting contact. <b>2010, 107, 041101</b>	11
527	Domain wall dynamics in ultra thin manganite film. <b>2010, 200, 042025</b>	1
526	Spin-polarized Josephson current in superconductor/ferromagnet/superconductor junctions with inhomogeneous magnetization. <b>2010, 81,</b>	71
525	Odd spin-triplet superconductivity in a multilayered superconductor-ferromagnet Josephson junction. <b>2010, 81,</b>	60
524	Triplet supercurrent due to spin-active zones in a Josephson junction. <b>2010, 82,</b>	11
523	Nanoscience and Engineering in Superconductivity. <b>2010,</b>	27
522	Nonadiabatic Josephson dynamics in junctions with in-gap quasiparticles. <b>2010, 36, 925-932</b>	2
521	Detection of the phase shift from a single Abrikosov vortex. <i>Physical Review Letters</i> , <b>2010, 104, 227003</b> 7.4	41
520	Electric modulation of supercurrent in triplet Josephson junction. <b>2010, 92, 17001</b>	2
519	Triplet Josephson current modulated by Rashba spin-orbit coupling. <b>2010, 22, 045302</b>	5
518	Influence of Josephson current second harmonic on stability of magnetic flux in long junctions. <b>2010, 248, 012044</b>	5
517	Evidence for triplet superconductivity in Josephson junctions with barriers of the ferromagnetic Heusler alloy Cu <sub>2</sub> MnAl. <b>2010, 82,</b>	132
516	Localized mode interactions in $\pi$ -Josephson junctions. <b>2010, 82,</b>	3
515	Spin-active interfaces and unconventional pairing in half-metal/superconductor junctions. <b>2010, 81,</b>	40
514	Supercurrent-induced magnetization dynamics in a Josephson junction with two misaligned ferromagnetic layers. <b>2011, 83,</b>	31

513	Strain-induced 0 $\pi$ transition in a zigzag graphene nanoribbon Josephson junction. <b>2011</b> , 98, 122106	14
512	Proximity effect and electron transport in oxide hybrid heterostructures with superconducting/magnetic interfaces. <b>2011</b> , 24, 055012	6
511	Josephson current and $\pi$ state in a ferromagnet with embedded superconducting nanoparticles. <b>2011</b> , 24, 024003	1
510	Spin-filter Josephson junctions. <b>2011</b> , 10, 849-52	141
509	Anomalous proximity effect in spin-valve superconductor/ferromagnetic metal/ferromagnetic metal structures. <b>2011</b> , 84,	23
508	Current-voltage characteristics of tunnel Josephson junctions with a ferromagnetic interlayer. <b>2011</b> , 84,	17
507	Manifestation of new interference effects in a superconductor-ferromagnet spin valve. <i>Physical Review Letters</i> , <b>2011</b> , 106, 067005	7-4 59
506	Tunneling Hamiltonian description of the atomic-scale 0 $\pi$ transition in superconductor/ferromagnetic-insulator junctions. <b>2011</b> , 471, 1199-1201	
505	Numerical modeling of long Josephson junctions in the frame of double sine-gordon equation. <b>2011</b> , 3, 389-398	3
504	Electron transport in hybrid superconductor heterostructures with manganite interlayers. <b>2011</b> , 112, 1042-1050	14
503	Investigation of Cu <sub>0.5</sub> Ni <sub>0.5</sub> /Nb interface transparency by using current-perpendicular-to-plane measurement. <b>2011</b> , 79, 153-162	2
502	Effect of the variation of the exchange energy on the superconducting critical temperature of S/F/S trilayers. <b>2011</b> , 80, 445-449	9
501	Interaction of Josephson and magnetic oscillations in Josephson tunnel junctions with a ferromagnetic layer. <b>2011</b> , 84,	25
500	X-ray scattering study of interfacial roughness in Nb/PdNi multilayers. <b>2011</b> , 605, 1791-1796	3
499	Composite Excitation of Josephson Phase and Spin Waves in Josephson Junctions with Ferromagnetic Insulator. <b>2011</b> , 80, 074707	8
498	Josephson 0- $\pi$ state transition in a magnetized zigzag graphene nanoribbon. <b>2011</b> , 96, 67003	
497	Spin supercurrent in Josephson contacts with noncollinear ferromagnets. <b>2011</b> , 13, 083033	28
496	Quasiparticle energy relaxation times in NbN/CuNi nanostripes from critical velocity measurements. <b>2011</b> , 84,	16

495	Superconductor-insulator-ferromagnet-superconductor Josephson junction: From the dirty to the clean limit. <b>2011</b> , 84,		15
494	Long-range superharmonic Josephson current. <i>Physical Review Letters</i> , <b>2011</b> , 107, 047001	7-4	39
493	Junction and spontaneous current state in a superfluid Fermi gas. <b>2011</b> , 84,		4
492	Proximity-induced density-of-states oscillations in a superconductor/strong-ferromagnet system. <b>2011</b> , 84,		21
491	Anomalous Hall effect in NiPt thin films. <b>2011</b> , 110, 033909		11
490	Ferromagnetic proximity effect in a ferromagnet/iron-pnictide superconductor junction. <b>2011</b> , 96, 17009		1
489	Influence of spin-dependent quasiparticle distribution on the Josephson current through a ferromagnetic weak link. <b>2011</b> , 84,		9
488	Josephson effect and spin-triplet pairing correlations in SF1F2S junctions. <b>2011</b> , 84,		44
487	Magnetic-coupling-dependent spin-triplet supercurrents in helimagnet/ferromagnet Josephson junctions. <b>2011</b> , 84,		39
486	Josephson junction with a magnetic-field tunable ground state. <i>Physical Review Letters</i> , <b>2011</b> , 107, 227001	7-4	54
485	Inducing odd-frequency triplet superconducting correlations in a normal metal. <i>Physical Review Letters</i> , <b>2011</b> , 107, 177001	7-4	24
484	Josephson effect in S/F/S junctions: Spin bandwidth asymmetry versus Stoner exchange. <b>2011</b> , 83,		21
483	Junction transition in InAs self-assembled quantum dot coupled with SQUID. <b>2011</b> , 98, 063106		4
482	Microwave-induced supercurrent in a ferromagnetic Josephson junction. <b>2011</b> , 24, 024008		7
481	Quantum interference in parallel connections of overdamped Josephson junctions. <b>2011</b> , 24, 065026		
480	Spin-triplet supercurrent in Co-based Josephson junctions. <b>2011</b> , 24, 024005		31
479	Interference effects of the superconducting pairing wavefunction due to the Fulde-Ferrell-Larkin-Ovchinnikov like state in ferromagnet/superconductor bilayers. <b>2011</b> , 24, 095004		12
478	Experimental evaluation of the current-phase relation of a Josephson junction. <b>2011</b> , 30, 1404-1415		

477	Josephson current through interacting double quantum dots with spin-orbit coupling. <b>2012</b> , 24, 415301		29
476	Complex Oxide Interfaces: A Path to Design New Materials. <b>2012</b> , 1454, 137-148		
475	Josephson effect in cuprate superconducting structures. <b>2012</b> , 38, 333-340		5
474	Transverse currents in triplet Josephson junction with spin-orbit coupling. <b>2012</b> , 85,		3
473	Josephson current through a superconductor/semiconductor-nanowire/superconductor junction: Effects of strong spin-orbit coupling and Zeeman splitting. <b>2012</b> , 86,		27
472	Spin-precession-assisted supercurrent in a superconducting quantum point contact coupled to a single-molecule magnet. <b>2012</b> , 86,		14
471	Nb lateral Josephson junctions induced by a NiFe cross strip. <b>2012</b> , 101, 242601		2
470	Reentrant superconducting phase in conical-ferromagnet-superconductor nanostructures. <i>Physical Review Letters</i> , <b>2012</b> , 108, 117005	7-4	25
469	Spin-flip scattering and critical currents in ballistic half-metallic d-wave Josephson junctions. <b>2012</b> , 85,		16
468	Exchange-field-modulated 0- $\pi$ transition and chiral edge supercurrents in a superconductor/ferromagnetic topological insulator/superconductor junction. <b>2012</b> , 85,		2
467	Non-Fraunhofer interference pattern in inhomogeneous ferromagnetic Josephson junctions. <i>Physical Review Letters</i> , <b>2012</b> , 108, 037001	7-4	16
466	Nonequilibrium supercurrent in a mesoscopic four-terminal triplet Josephson junction. <b>2012</b> , 99, 67007		1
465	Josephson junctions incorporating a conical magnetic holmium interlayer. <b>2012</b> , 85,		29
464	Generation of Large Spin Accumulation in S/N/S Josephson Junctions. <b>2012</b> , 400, 022130		
463	Area-dependence of spin-triplet supercurrent in ferromagnetic Josephson junctions. <b>2012</b> , 400, 022131		
462	Interconnection between static regimes in the LJJ's described by the double sine-Gordon equation. <b>2012</b> , 393, 012023		0
461	The Josephson effect between triplet superconductors through a finite ferromagnetic barrier. <b>2012</b> , 24, 045701		10
460	NANOSCALE SUPERCONDUCTIVITY. <b>2012</b> , 26, 1230013		32



459	Electronic transport through ferromagnetic and superconducting junctions with spin-filter tunneling barriers. <b>2012</b> , 86,		49
458	Spin-triplet supercurrent in Co/Ni multilayer Josephson junctions with perpendicular anisotropy. <b>2012</b> , 86,		35
457	Nb Lateral Josephson Junction Induced by Inverse Proximity Effect With NiFe. <b>2012</b> , 48, 4236-4238		
456	Supercurrent enhancement in Bloch domain walls. <b>2012</b> , 2, 699		39
455	Phase diagram of Josephson junction between s and s' superconductors in the dirty limit. <b>2012</b> , 86,		11
454	Properties of Magnetic-Superconducting Proximity Systems. <b>2012</b> , 25, 2177-2182		2
453	Vanishing Meissner effect as a hallmark of in-plane Fulde-Ferrell-Larkin-Ovchinnikov instability in superconductor-ferromagnet layered systems. <i>Physical Review Letters</i> , <b>2012</b> , 109, 237002	7-4	41
452	Experimental evidence of a $\pi$ Josephson junction. <i>Physical Review Letters</i> , <b>2012</b> , 109, 107002	7-4	88
451	Spectrum of Andreev bound states in Josephson junctions with a ferromagnetic insulator. <b>2012</b> , 324, 3467-3470		7
450	Magnon mechanism of Josephson coupling in superconductor-ferromagnet-superconductor structures. <b>2012</b> , 96, 467-470		0
449	Magnetic Josephson Junction Technology for Digital and Memory Applications. <b>2012</b> , 36, 35-41		72
448	Towards precise measurement of oscillatory domain wall by ferromagnetic Josephson junction. <b>2012</b> , 100, 152402		5
447	Theory of Proximity Effect in Ferromagnet/Superconductor Heterostructures in the Presence of Spin Dependent Interfacial Phase Shift. <b>2012</b> , 51, 010108		2
446	Long-range proximity effect for opposite-spin pairs in superconductor-ferromagnet heterostructures under nonequilibrium quasiparticle distribution. <i>Physical Review Letters</i> , <b>2012</b> , 108, 197002	7-4	19
445	Quasiparticle relaxation mechanisms in superconductor/ferromagnet bilayers. <b>2012</b> , 24, 083201		12
444	Controlled dynamics of sine-Gordon breather in long Josephson junctions. <b>2012</b> , 85, 1		8
443	Ferromagnetic Josephson switching device with high characteristic voltage. <b>2012</b> , 100, 222601		108
442	Influence of Andreev reflection on current-voltage characteristics of superconductor/ferromagnet/superconductor metallic weak links. <b>2012</b> , 85,		5

441	Anomalous polarization-dependent transport in nanoscale double-barrier superconductor/ferromagnet/superconductor junctions. <b>2012</b> , 85,	16
440	Theory of finite temperature Josephson transport through a ferromagnetic insulator. <b>2012</b> , 27, 308-311	
439	Properties of Josephson junctions in the nonuniform field of ferromagnetic particles. <b>2012</b> , 95, 104-113	3
438	Magnetic switches based on Nb-PdFe-Nb Josephson junctions with a magnetically soft ferromagnetic interlayer. <b>2012</b> , 95, 366-371	54
437	Novel composite particles in superconductor/semiconductor/superconductor junction. <b>2012</b> , 24, 307-11	
436	Quantum Oscillations and $\mathbb{Z}_2$ States in Multiply Connected Ferromagnet-Superconductor Hybrids. <b>2013</b> , 26, 2851-2852	
435	Interfacial Coupling between Oxide Superconductors and Ferromagnets. <b>2013</b> , 325-337	
434	Inverse magnetic proximity effects in superconducting In-Ni and Sn-Ni nanoparticle assemblies. <b>2013</b> , 15, 1	3
433	Inverse proximity effect and influence of disorder on triplet supercurrents in strongly spin-polarized ferromagnets. <b>2013</b> , 88,	17
432	Magnetization and AC Susceptibility Study of Nb/Ni/Nb Thin Films. <b>2013</b> , 49, 4534-4537	
431	Proximity effects in a spin-triplet superconductor/ferromagnet heterostructure with a spin-active interface. <b>2013</b> , 88,	16
430	Memory effect and triplet pairing generation in the superconducting exchange biased Co/CoOx/Cu41Ni59/Nb/Cu41Ni59 layered heterostructure. <b>2013</b> , 103, 062604	25
429	Spin-orbital coupling in a triplet superconductor-ferromagnet junction. <i>Physical Review Letters</i> , <b>2013</b> , 111, 097003	7.4 22
428	Pressure-induced 0- $\pi$ transitions and supercurrent crossover in antiferromagnetic weak links. <b>2013</b> , 88,	6
427	Magnetic Josephson Junctions With Superconducting Interlayer for Cryogenic Memory. <b>2013</b> , 23, 1701208-1701208	128
426	Stability of stationary fronts in a non-linear wave equation with spatial inhomogeneity. <b>2013</b> , 254, 408-468	14
425	Transport in multiterminal superconductor/ferromagnet junctions having spin-dependent interfaces. <b>2013</b> , 87,	11
424	Field modulation of the critical current in magnetic Josephson junctions. <b>2013</b> , 26, 055017	13

423	Spin-Polarized Electrons in Superconductor/Ferromagnet Hybrid Structures. <b>2013</b> , 85-118		3
422	Theoretical model of superconducting spintronic SIsFS devices. <b>2013</b> , 102, 192603		48
421	Memory cell based on a $\pi$ Josephson junction. <b>2013</b> , 102, 242602		57
420	Interfaces in superconducting hybrid heterostructures with an antiferromagnetic interlayer. <b>2013</b> , 55, 461-465		5
419	Josephson $\pi$ junctions based on structures with complex normal/ferromagnet bilayer. <b>2013</b> , 26, 015005		27
418	Rapidly oscillating ac-driven long Josephson junctions with phase-shifts. <b>2013</b> , 246, 15-22		5
417	Long-range spin current driven by superconducting phase difference in a Josephson junction with double layer ferromagnets. <i>Physical Review Letters</i> , <b>2013</b> , 110, 237003	7.4	10
416	Nonmagnetic Sc Substitution in a Perovskite Ferromagnetic Insulator Pr <sub>0.8</sub> Ca <sub>0.2</sub> MnO <sub>3</sub> . <b>2013</b> , 82, 014801		1
415	On the theory of the proximity effect in atomic scale superconducting/normal metal multilayered structures. <b>2013</b> , 26, 085011		
414	Josephson Current through Semiconductor Nanowire with Spin-Orbit Interaction in Magnetic Field. <b>2013</b> , 82, 054703		36
413	Stationary Josephson effect in a short multiterminal junction. <b>2013</b> , 87,		9
412	Josephson current through a quantum dot coupled to a molecular magnet. <b>2013</b> , 88,		6
411	Superharmonic long-range triplet current in a diffusive Josephson junction. <i>Physical Review Letters</i> , <b>2013</b> , 110, 217004	7.4	40
410	Theory of supercurrent transport in SIsFS Josephson junctions. <b>2013</b> , 88,		30
409	Robustness of Spin-Triplet Pairing and Singlet-Triplet Pairing Crossover in Superconductor/Ferromagnet Hybrids. <b>2013</b> , 82, 124702		24
408	Vortex flipping in superconductor/ferromagnet spin-valve structures. <b>2013</b> , 87,		5
407	Magnetic interference patterns in long disordered Josephson junctions. <b>2013</b> , 87,		5
406	Reentrant superconductivity in HoNi <sub>5</sub> -NbN-HoNi <sub>5</sub> nanostructures. <b>2013</b> , 103, 47013		4

405	Supra-oscillatory critical temperature dependence of Nb-Ho bilayers. <b>2013</b> , 101, 37002	25
404	Switching effects in superconductor/ferromagnet/superconductor graphene junctions. <b>2013</b> , 22, 127401	
403	Superconducting spin valve and triplet superconductivity. <b>2014</b> , 78, 1341-1347	1
402	Giant thermoelectric effects in a proximity-coupled superconductor/ferromagnet device. <b>2014</b> , 16, 073002	43
401	Investigation of nonlinear superconducting microwave resonators including Nb Josephson junctions and SQUID arrays. <b>2014</b> , 507, 042016	1
400	Long range triplet Josephson current and 0 $\pi$ transitions in tunable domain walls. <b>2014</b> , 16, 093048	8
399	Thermodynamic nature of the 0 $\pi$ quantum transition in superconductor/ferromagnet/superconductor trilayers. <b>2014</b> , 90,	21
398	Tunable critical supercurrent and spin-asymmetric Josephson effect in superlattices. <b>2014</b> , 89,	1
397	Anomalous Josephson effect induced by spin-orbit interaction and Zeeman effect in semiconductor nanowires. <b>2014</b> , 89,	106
396	Interplay between interband coupling and ferromagnetism in iron pnictide superconductor/ferromagnet/iron pnictide superconductor junctions. <b>2014</b> , 116, 083905	
395	Manifestation of a spin-splitting field in a thermally biased Josephson junction. <b>2014</b> , 89,	10
394	Angular dependence of superconductivity in superconductor/spin-valve heterostructures. <b>2014</b> , 89,	49
393	Proximity-induced superconductivity in crystalline Cu and Co nanowires and nanogranular Co structures. <b>2014</b> , 116, 073906	11
392	Measurement of the spatial extent of inverse proximity in a Py/Nb/Py superconducting trilayer using low-energy muon-spin rotation. <b>2014</b> , 89,	9
391	High normal zone propagation velocity in second generation high-temperature superconductor coated conductors with a current flow diverter architecture. <b>2014</b> , 27, 055013	17
390	Combinatorial sputtering in planetary type systems for alloy libraries with perpendicular gradients of layer thickness and composition realised by a timing approach. <b>2014</b> , 116, 229-232	2
389	Josephson junctions with tunable current-phase relation. <b>2014</b> , 90,	14
388	Josephson $\beta$ state induced by valley polarization. <b>2014</b> , 89,	14

387	The interface between superconductivity and magnetism: understanding and device prospects. <b>2014</b> , 26, 453201	73
386	Zero-Field Fiske Resonance Coupled with Spin-Waves in Ferromagnetic Josephson Junctions. <b>2014</b> , 83, 074704	2
385	Use of PdFe and NiFe/Nb as Soft Magnetic Layers in Ferromagnetic Josephson Junctions for Nonvolatile Cryogenic Memory. <b>2014</b> , 24, 1-7	37
384	Superconducting frustration bit. <b>2014</b> , 505, 55-64	4
383	Cascading proximity effects in rotating magnetizations. <b>2014</b> , 107, 17001	5
382	Spin-orbit coupling as a source of long-range triplet proximity effect in superconductor-ferromagnet hybrid structures. <b>2014</b> , 89,	112
381	Superconducting-Ferromagnetic Transistor. <b>2014</b> , 24, 1-6	23
380	Standard, inverse, and triplet spin-valve effects in F1/S/F2 systems. <b>2014</b> , 89,	13
379	Bistable state in superconductor/ferromagnet heterostructures. <b>2014</b> , 89,	3
378	Magnetic Josephson junctions with noncentrosymmetric superconductors. <b>2014</b> , 89,	9
377	Spin-controlled coexistence of 0 and $\pi$ states in SFSFS Josephson junctions. <b>2014</b> , 89,	30
376	Conductance spectroscopy in ferromagnet-superconductor hybrids. <b>2014</b> , 27, 075008	4
375	Fabrication of YBCO-LSMO-YBCO Lateral Structure with AFM Lithography. <b>2014</b> , 58, 195-199	2
374	Josephson Junctions and Their Properties. <b>2015</b> , 321-372	
373	Manipulating the magnetic state of a carbon nanotube Josephson junction using the superconducting phase. <b>2015</b> , 91,	34
372	Critical temperature and tunneling spectroscopy of superconductor-ferromagnet hybrids with intrinsic Rashba-Dresselhaus spin-orbit coupling. <b>2015</b> , 92,	51
371	Magnetization induced by odd-frequency spin-triplet Cooper pairs in a Josephson junction with metallic trilayers. <b>2015</b> , 92,	12
370	Josephson effect through magnetic skyrmions. <b>2015</b> , 92,	14

- 369 Charge and spin currents in ferromagnetic Josephson junctions. **2015**, 92, 28
- 368 Robustness of the 0 $\pi$  transition against compositional and structural ageing in superconductor/ferromagnetic/superconductor heterostructures. **2015**, 92, 6
- 367 Proximity-Induced  $\pi$  Josephson Junctions in Topological Insulators and Kramers Pairs of Majorana Fermions. *Physical Review Letters*, **2015**, 115, 237001 7-4 58
- 366 General framework for transport in spin-orbit-coupled superconducting heterostructures: Nonuniform spin-orbit coupling and spin-orbit-active interfaces. **2015**, 91, 24
- 365 First order 0 $\pi$  phase transitions in superconductor/ferromagnet/superconductor trilayers. **2015**, 92, 12
- 364 Theory of the spin-galvanic effect and the anomalous phase shift  $\pi$  in superconductors and Josephson junctions with intrinsic spin-orbit coupling. **2015**, 92, 70
- 363 Fundamentals. **2015**, 1-104 1
- 362 Stimulation of a singlet superconductivity in SFS weak links by spin-exchange scattering of cooper pairs. **2014**, 4, 5671 11
- 361 Preparation of a ferromagnetic barrier in YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> $\delta$  thinner than the coherence length. **2015**, 118, 223902 3
- 360 The effect of normal and insulating layers on 0 $\pi$  transitions in Josephson junctions with a ferromagnetic barrier. **2015**, 17, 113022 9
- 359 Theory of diffusive  $\pi$  Josephson junctions in the presence of spin-orbit coupling. **2015**, 110, 57005 40
- 358 Growth and properties of La<sub>0.7</sub>Sr<sub>0.3</sub>MnO<sub>3</sub>/YBa<sub>2</sub>Cu<sub>3</sub>O<sub>7</sub> $\delta$ /La<sub>0.7</sub>Sr<sub>0.3</sub>MnO<sub>3</sub> epitaxial trilayer films. **2015**, 118, 223902 3
- 357 Spin Flows in Magnetic Semiconductor/Insulator/Superconductor Tunneling Junction. **2015**, 2015, 1-9 1
- 356 0 $\pi$  transition Driven by Magnetic Proximity Effect in a Josephson Junction. **2015**, 84, 024712 1
- 355 Decay of bound states in a sine-Gordon equation with double-well potentials. **2015**, 56, 051502 6
- 354 A diagrammatic approach to triplet supercurrents in ferromagnetic Josephson junctions. **2015**, 88, 1 1
- 353 In-plane magnetic field versus temperature phase diagram of a quasi-2D frustrated multiband superconductor. **2015**, 28, 045021 1
- 352 Mesoscopic Josephson junctions with switchable current-phase relation. **2015**, 112, 17013 4

351	Multicomponent superconductivity based on multiband superconductors. <b>2015</b> , 28, 034002	47
350	Andreev bound-state dynamics in quantum-dot Josephson junctions: a washing out of the 0- $\pi$ transition. <i>Physical Review Letters</i> , <b>2015</b> , 114, 037003	7-4 12
349	Controlled suppression of superconductivity by the generation of polarized Cooper pairs in spin-valve structures. <b>2015</b> , 91,	51
348	Spin-Transfer Torque Switching in Nanopillar Superconducting-Magnetic Hybrid Josephson Junctions. <b>2015</b> , 3,	30
347	Hybrid quantum dot $\mu$ superconducting systems: Josephson current and Kondo effect in the narrow-band limit. <b>2015</b> , 91,	5
346	Recovering of superconductivity in S/F bilayers under spin-dependent nonequilibrium quasiparticle distribution. <b>2015</b> , 101, 407-412	9
345	Macroscopic quantum tunnelling in spin filter ferromagnetic Josephson junctions. <b>2015</b> , 6, 7376	29
344	S/F/S Josephson junctions with single-domain ferromagnets for memory applications. <b>2015</b> , 28, 085012	25
343	Superfluid Density and Vortex Dynamics in S/F/S Heterostructures. <b>2015</b> , 28, 1097-1101	1
342	Semifluxons in 0 $\pi$ infinitely long Josephson junctions. <b>2015</b> , 379, 2362-2369	4
341	Superconducting spintronics. <b>2015</b> , 11, 307-315	552
340	Spin-polarized supercurrents for spintronics: a review of current progress. <b>2015</b> , 78, 104501	271
339	Observation of 0 $\pi$ transition in SIsFS Josephson junctions. <b>2015</b> , 106, 022602	14
338	Proximity induced vortices and long-range triplet supercurrents in ferromagnetic Josephson junctions and spin valves. <b>2015</b> , 117, 123906	37
337	Zero-energy peak and triplet correlations in nanoscale superconductor/ferromagnet/ferromagnet spin valves. <b>2015</b> , 92,	48
336	General boundary conditions for quasiclassical theory of superconductivity in the diffusive limit: application to strongly spin-polarized systems. <b>2015</b> , 17, 083037	60
335	Observability of surface Andreev bound states in a topological insulator in proximity to an s-wave superconductor. <b>2015</b> , 27, 315701	16
334	Ferromagnetic SrRuO <sub>3</sub> thin-film deposition on a spin-triplet superconductor Sr <sub>2</sub> RuO <sub>4</sub> with a highly conducting interface. <b>2015</b> , 8, 015502	12

333	Phase transition in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> and YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> /Y <sub>3</sub> Fe <sub>5</sub> O <sub>12</sub> nanoparticles at low temperatures and high fields. <b>2015</b> , 373, 188-194	3
332	Quantum interference in an interfacial superconductor. <b>2016</b> , 11, 861-865	24
331	Tunable 0 $\pi$ transition by interband coupling in iron-based superconductor Josephson junctions. <b>2016</b> , 18, 013010	2
330	Stochastic single flux quantum neuromorphic computing using magnetically tunable Josephson junctions. <b>2016</b> ,	11
329	Micromagnetic modeling of critical current oscillations in magnetic Josephson junctions. <b>2016</b> , 94,	17
328	Superconducting Order in Magnetic Heterostructures. <b>2016</b> , 1-46	
327	Superconducting phase domains for memory applications. <b>2016</b> , 108, 042602	23
326	Proximity Effect. <b>2016</b> , 1-22	
325	Superconducting proximity effect in NiBi <sub>3</sub> -Ni-NiBi <sub>3</sub> trilayer system with sharp superconductor-ferromagnet boundaries. <b>2016</b> , 119, 063902	6
324	Magnetization dynamics in dilute Pd <sub>1-x</sub> Fe <sub>x</sub> thin films and patterned microstructures considered for superconducting electronics. <b>2016</b> , 120, 163902	21
323	Magnetic proximity effect and superconducting triplet correlations at the cuprate superconductor and oxide spin valve interface. <b>2016</b> , 42, 873-883	2
322	Cobalt/Cobaltoxide Exchange Bias System for Diluted Ferromagnetic Alloy Films in Superconducting Spin-Valves. <b>2016</b> , 301-313	1
321	Novel 0 $\pi$ transitions in Josephson junctions between noncentrosymmetric superconductors. <b>2016</b> , 25, 097403	1
320	Evidence for a $\pi$ junction in Nb/Ni <sub>0.96</sub> V <sub>0.04</sub> /Nb trilayers revealed by superfluid density measurements. <b>2016</b> , 94,	7
319	Detecting $\pi$ phase superfluids with p-wave symmetry in a quasi-one-dimensional optical lattice. <b>2016</b> , 94,	6
318	Classification of magnetic inhomogeneities and 0 $\pi$ transitions in superconducting-magnetic hybrid structures. <b>2016</b> , 94,	1
317	Novel $\pi$ type vortex in a nanoscale extreme type-II superconductor: Induced by quantum-size effect. <b>2016</b> , 500, 53-58	1
316	Correlated transport in silicene-based Josephson junctions. <b>2016</b> , 94,	7



315	Tunable anomalous Andreev reflection and triplet pairings in spin-orbit-coupled graphene. <b>2016</b> , 94,	37
314	Josephson effect in multiterminal superconductor-ferromagnet junctions coupled via triplet components. <b>2016</b> , 93,	3
313	Chiral nodes and oscillations in the Josephson current in Weyl semimetals. <b>2016</b> , 93,	25
312	Effective model for a short Josephson junction with a phase discontinuity. <b>2016</b> , 93,	5
311	Topological phases of inhomogeneous superconductivity. <b>2016</b> , 93,	34
310	Influence of the FFLO-like state on the upper critical field of a superconductor/ferromagnet bilayer: Angular and temperature dependence. <b>2016</b> , 93,	7
309	Gapped triplet p-wave superconductivity in strong spin-orbit-coupled semiconductor quantum wells in proximity to s-wave superconductor. <b>2016</b> , 93,	14
308	Josephson junction through a disordered topological insulator with helical magnetization. <b>2016</b> , 93,	54
307	Kink ratchet induced by a time-dependent symmetric field potential. <b>2016</b> , 94, 012221	3
306	Josephson current in a normal-metal nanowire coupled to a superconductor/ferromagnet/superconductor junction. <b>2016</b> , 93,	9
305	Intrinsic spin-orbit interaction in diffusive normal wire Josephson weak links: Supercurrent and density of states. <b>2016</b> , 93,	12
304	Electric control of the Josephson current-phase relation in a topological circuit. <b>2016</b> , 93,	5
303	Phase-tunable Josephson junction and spontaneous mass current in a spin-orbit-coupled Fermi superfluid. <b>2016</b> , 94,	2
302	Quantum ground state control in superconductor-silicene structures: 0- $\pi$ transitions, $\bar{0}$ -junctions, and Majorana bound states. <b>2016</b> , 94,	24
301	Light-modulated 0- $\pi$ transition in a silicene-based Josephson junction. <b>2016</b> , 94,	19
300	Superconducting coupling across a spin-filtering manganite tunnel barrier with magnetic disorder. <b>2016</b> , 115, 67005	
299	Superradiant Phase Transition in a Superconducting Circuit in Thermal Equilibrium. <i>Physical Review Letters</i> , <b>2016</b> , 117, 173601	7-4 52
298	Phase transitions in hybrid SFS structures with thin superconducting layers. <b>2016</b> , 104, 329-333	9

297	Tunable ground states in helical p-wave Josephson junctions. <b>2016</b> , 29, 075010	3
296	Josephson currents and spin-transfer torques in ballistic SFSFS nanojunctions. <b>2016</b> , 29, 055007	27
295	Long-Range Spin-Triplet Superconductivity Induced by Magnetic Field in d Wave Superconductor/Ferromagnet Hybrid System. <b>2016</b> , 29, 1741-1746	2
294	Gate-tunable superconducting quantum interference devices of PbS nanowires. <b>2016</b> , 9, 023102	5
293	Controllable $\pi$ -Josephson junctions containing a ferromagnetic spin valve. <b>2016</b> , 12, 564-567	125
292	Remotely induced magnetism in a normal metal using a superconducting spin-valve. <b>2016</b> , 12, 57-61	44
291	Coexistence of superconductivity and superparamagnetism in PbCo electrodeposited nanowires. <b>2017</b> , 123, 1	0
290	Long-range proximity effect in Nb-based heterostructures induced by a magnetically inhomogeneous permalloy layer. <b>2017</b> , 19, 023037	8
289	Robust quantum optimizer with full connectivity. <b>2017</b> , 3, e1602273	45
288	Coexistence of tunneling magnetoresistance and Josephson effects in SFIFS junctions. <b>2017</b> , 7, 025008	5
287	Superconductor-antiferromagnet-superconductor $\pi$ -Josephson junction based on an antiferromagnetic barrier. <b>2017</b> , 95,	9
286	Fabrication of superconductor/ferromagnet/insulator/superconductor Josephson junctions with critical current uniformity applicable to integrated circuits. <b>2017</b> , 10, 033101	8
285	$0-\pi$ phase-controllable thermal Josephson junction. <b>2017</b> , 12, 425-429	23
284	Spin-asymmetric Josephson plasma oscillations. <b>2017</b> , 95,	2
283	Magnetoanisotropic Josephson effect due to interfacial spin-orbit fields in superconductor/ferromagnet/superconductor junctions. <b>2017</b> , 95,	18
282	Molecule-Confined Engineering toward Superconductivity and Ferromagnetism in Two-Dimensional Superlattice. <b>2017</b> , 139, 16398-16404	36
281	Tunability of Andreev levels via spin-orbit coupling in Zeeman-split Josephson junctions. <b>2017</b> , 96,	2
280	Intrinsic superspin Hall current. <b>2017</b> , 96,	10

279	0 $\pi$ transitions in a Josephson junction of an irradiated Weyl semimetal. <b>2017</b> , 95,	21
278	Odd-triplet superconductivity in single-level quantum dots. <b>2017</b> , 96,	9
277	Phase Offsets in the Critical-Current Oscillations of Josephson Junctions Based on Ni and Ni-(Ni <sub>81</sub> Fe <sub>19</sub> ) <sub>x</sub> Nby Barriers. <b>2017</b> , 7,	12
276	Conservation of spin supercurrents in superconductors. <b>2017</b> , 96,	6
275	Supercurrent switch in $\pi$ topological junctions based upon a narrow quantum spin Hall insulator. <b>2017</b> , 7, 10723	4
274	Competition between Superconductor - Ferromagnetic stray magnetic fields in YBaCuO films pierced with Co nano-rods. <b>2017</b> , 7, 5663	18
273	Silicene-based $\pi$ and $0$ Josephson junctions. <b>2017</b> , 95,	11
272	Anomalous current in diffusive ferromagnetic Josephson junctions. <b>2017</b> , 95,	36
271	Theoretical Study of Magnetism Induced by Proximity Effect in a Ferromagnetic Josephson Junction with a Normal Metal. <b>2017</b> , 86, 094702	2
270	Supercurrent vortex pinball via a triplet Cooper pair inverse Edelstein effect. <b>2017</b> , 96,	3
269	Spin-switch Josephson junctions with magnetically tunable $\sin(\varphi_n)$ current-phase relation. <b>2017</b> , 96,	7
268	Interaction-modulated tunneling dynamics in a mixture of Bose-Einstein condensates. <b>2017</b> , 71, 1	4
267	Homogeneous superconductivity at the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> interface probed by nanoscale transport. <b>2017</b> , 96,	7
266	Phase transitions in hybrid SFS structures with thin superconducting layers. <b>2017</b> , 59, 2143-2149	3
265	NbN-Based Ferromagnetic $0$ and $\pi$ Josephson Junctions. <b>2017</b> , 8,	28
264	Proximity effects in multiband superconductor/ferromagnetic metal structures. <b>2017</b> , 43, 602-609	2
263	Continuously tuneable critical current in superconductor-ferromagnet multilayers. <b>2017</b> , 110, 262601	4
262	Topological Superconductivity in a Planar Josephson Junction. <b>2017</b> , 7,	75

261	Low temperature properties of spin filter NbN/GdN/NbN Josephson junctions. <b>2017</b> , 533, 53-58	3
260	Magnetic properties of superconducting Bi/Ni bilayers. <b>2017</b> , 422, 73-76	13
259	Superconducting exchange coupling between ferromagnets. <b>2017</b> , 16, 195-199	41
258	Controlled finite momentum pairing and spatially varying order parameter in proximitized HgTe quantum wells. <b>2017</b> , 13, 87-93	47
257	Tunable $\pi$ -Josephson junction with a quantum anomalous Hall insulator. <b>2017</b> , 96,	2
256	Spin-triplet supercurrent in Josephson junctions containing a synthetic antiferromagnet with perpendicular magnetic anisotropy. <b>2017</b> , 96,	13
255	Anomalous Josephson effect controlled by an Abrikosov vortex. <b>2017</b> , 96,	9
254	Evolution of non-collinear magnetic state of exchange biased ferromagnet/normal metal/ferromagnet/superconductor heterostructure in magnetic field studied by polarized neutron reflectometry. <b>2017</b> , 43, 837-840	3
253	Circuit configurations which may or may not show superradiant phase transitions. <b>2017</b> , 96,	14
252	Critical current oscillations of elliptical Josephson junctions with single-domain ferromagnetic layers. <b>2017</b> , 122, 133906	16
251	Screening properties of multiply connected ferromagnet/superconductor hybrid structures. <b>2017</b> , 125, 298-309	5
250	15. Superconductor/ferromagnet hybrids. <b>2017</b> , 473-486	
249	In Search of Unambiguous Evidence of the Fulde-Ferrell-Larkin-Ovchinnikov State in Quasi-Low Dimensional Superconductors. <b>2017</b> , 2, 30	9
248	Tuning the $0 - \pi$ Josephson junction with a magnetic impurity: Role of tunnel contacts, exchange coupling, $e - e$ interactions and high-spin states. <b>2018</b> , 8, 5208	2
247	Magnetic and superconducting phase diagram of Nb/Gd/Nb trilayers. <b>2018</b> , 97,	15
246	Spin-valve Josephson junctions for cryogenic memory. <b>2018</b> , 97,	27
245	Noise induced transition in Josephson junction with second harmonic. <b>2018</b> , 91, 1	
244	Fabrication of Optimized Superconducting Phase Inverters Based on Superconductor/Ferromagnet/Superconductor ( $\pi$ )-Junctions. <b>2018</b> , 190, 302-314	4

243	Relativistic spin-polarized KKR theory for superconducting heterostructures: Oscillating order parameter in the Au layer of Nb/Au/Fe trilayers. <b>2018</b> , 97,		6
242	Yu-Shiba-Rusinov bands in superconductors in contact with a magnetic insulator. <b>2018</b> , 459, 276-279		2
241	Magnetoanisotropic spin-triplet Andreev reflection in ferromagnet-Ising superconductor junctions. <b>2018</b> , 97,		11
240	Determination of the Current-Phase Relation in Josephson Junctions by Means of an Asymmetric Two-Junction SQUID. <b>2018</b> , 107, 48-54		3
239	Determination of the Transition Temperature of a Weak Ferromagnetic Thin Film by Means of an Evolution of the Method Based on the Arrott Plots. <b>2018</b> , 31, 1127-1132		11
238	Quantum transition in a carbon nanotube Josephson junction: Universal phase dependence and orbital degeneracy. <b>2018</b> , 536, 211-222		6
237	Tuning the in-plane Fulde-Ferrell-Larkin-Ovchinnikov state in a superconductor/ferromagnet/normal-metal hybrid structure by current or magnetic field. <b>2018</b> , 98,		6
236	Spin-split conductance and subgap peak in ferromagnet/superconductor spin valve heterostructures. <b>2018</b> , 98,		6
235	Colloquium: Nonequilibrium effects in superconductors with a spin-splitting field. <b>2018</b> , 90,		57
234	Second-Harmonic Current-Phase Relation in Josephson Junctions with Ferromagnetic Barriers. <i>Physical Review Letters</i> , <b>2018</b> , 121, 177702	7.4	13
233	Extrinsic spin-charge coupling in diffusive superconducting systems. <b>2018</b> , 98,		7
232	Tutorial: High-speed low-power neuromorphic systems based on magnetic Josephson junctions. <b>2018</b> , 124, 161102		28
231	Connection between zero-energy Yu-Shiba-Rusinov states and transitions in magnetic Josephson junctions. <b>2018</b> , 98,		6
230	Electrodynamics of Josephson junctions containing strong ferromagnets. <b>2018</b> , 98,		7
229	Periodic Andreev bound states in a Dirac semimetal. <b>2018</b> , 17, 875-880		52
228	Transition induced by the barrier strength in spin superconductor Josephson junctions. <b>2018</b> , 27, 097401		2
227	Phase Shift and Control in Superconducting Hybrid Structures. <b>2018</b> , E101.C, 378-384		3
226	Re-orientation of the easy axis in $\mathbb{D}$ -junction. <b>2018</b> , 122, 37001		11

225	Magnetization Reversal by Tuning Rashba Spin-Orbit Interaction and Josephson Phase in a Ferromagnetic Josephson Junction. <b>2018</b> , 87, 074707		8
224	Role of canting and depleted-triplet minima in superconducting spin valve structures. <b>2018</b> , 97,		0
223	Spin-triplet supercurrents in Josephson junctions containing strong ferromagnetic materials. <b>2018</b> , 376,		20
222	Non-equilibrium charge and spin transport in superconducting-ferromagnetic-superconducting point contacts. <b>2018</b> , 376,		2
221	Ferromagnet/Superconductor Hybridization for Magnonic Applications. <b>2018</b> , 28, 1802375		25
220	Compact Josephson Junctions. <b>2018</b> , 49-71		0
219	Magnetic Proximity Effect and Superconducting Triplet Correlations at the Heterostructure of Cuprate Superconductor and Oxide Spin Valve. <b>2018</b> , 73-90		
218	Multiterminal Superconducting-Ferromagnetic Device with Magnetically Tunable Supercurrent for Memory Application. <b>2018</b> , 28, 1-4		9
217	Relaxation of nonequilibrium quasiparticles in mesoscopic size superconductors. <b>2018</b> , 30, 343001		7
216	Non-Fermi liquid at the FFLO quantum critical point. <b>2018</b> , 98,		6
215	Probing dynamics of micro-magnets with multi-mode superconducting resonator. <b>2018</b> , 123, 173904		8
214	Magnetic Exchange Fields and Domain Wall Superconductivity at an All-Oxide Superconductor-Ferromagnet Insulator Interface. <i>Physical Review Letters</i> , <b>2018</b> , 121, 077003	7-4	6
213	Anomalous Supercurrent Modulation in Josephson Junctions With Ni-Based Barriers. <b>2018</b> , 28, 1-5		7
212	Temperature Controlled Fulde-Ferrell-Larkin-Ovchinnikov Instability in Superconductor-Ferromagnet Hybrids. <i>Physical Review Letters</i> , <b>2018</b> , 121, 077002	7-4	10
211	Single interface effects dominate in exciton-condensate/normal-barrier/exciton-condensate (EC/N/EC) structures of long-barrier. <b>2018</b> , 20, 083002		0
210	Spontaneous Josephson Junctions with topological superconductors. <b>2019</b> , 100,		4
209	Zeeman-Effect-Induced 0- $\pi$ Transitions in Ballistic Dirac Semimetal Josephson Junctions. <i>Physical Review Letters</i> , <b>2019</b> , 123, 026802	7-4	5
208	Controlling the electromagnetic proximity effect by tuning the mixing between superconducting and ferromagnetic order. <b>2019</b> , 100,		7

207	Femtosecond Optical and Magneto-Optical Spectroscopy Study of Magnetic and Electronic Inhomogeneities in a Pd <sub>0.94</sub> Fe <sub>0.06</sub> Thin Film. <b>2019</b> , 110, 217-222	2
206	Two-Dimensional Material Tunnel Barrier for Josephson Junctions and Superconducting Qubits. <b>2019</b> , 19, 8287-8293	11
205	Two mechanisms of Josephson phase shift generation by an Abrikosov vortex. <b>2019</b> , 100,	6
204	Superconducting spin-valve effect in heterostructures with ferromagnetic Heusler alloy layers. <b>2019</b> , 100,	5
203	Phase-dependent spin polarization of Cooper pairs in magnetic Josephson junctions. <b>2019</b> , 100,	7
202	Proximity effect in a ferromagnetic semiconductor with spin-orbit interactions. <b>2019</b> , 100,	0
201	Competitive 0 and $\pi$ states in S/F/S trilayers: Multimode approach. <b>2019</b> , 100,	6
200	Local Josephson vortex generation and manipulation with a Magnetic Force Microscope. <b>2019</b> , 10, 4009	8
199	Thermal, electric and spin transport in superconductor/ferromagnetic-insulator structures. <b>2019</b> , 94, 100540	31
198	Tuning of Magnetic Activity in Spin-Filter Josephson Junctions Towards Spin-Triplet Transport. <i>Physical Review Letters</i> , <b>2019</b> , 122, 047002	7.4 8
197	Tuning superconductivity in twisted bilayer graphene. <b>2019</b> , 363, 1059-1064	814
196	The 0 $\pi$ Phase Transition in Epitaxial NbN/Ni <sub>60</sub> Cu <sub>40</sub> /NbN Josephson Junctions. <b>2019</b> , 36, 047401	2
195	Dynamic properties of asymmetric double Josephson junction stack with quasiparticle imbalance. <b>2019</b> , 30, 324004	3
194	Switch effect and 0- $\pi$ transition in Ising superconductor Josephson junctions. <b>2019</b> , 99,	4
193	Planarized Fabrication Process With Two Layers of SIS Josephson Junctions and Integration of SIS and SFS $\pi$ Junctions. <b>2019</b> , 29, 1-8	6
192	Chirality-controlled spontaneous currents in spin-orbit coupled superconducting rings. <b>2019</b> , 99,	8
191	Domain wall induced modulation of low field H-T phase diagram in patterned superconductor-ferromagnet stripes. <b>2019</b> , 9, 045107	3
190	Spectral properties and quantum phase transitions in superconducting junctions with a ferromagnetic link. <b>2019</b> , 99,	4

189	Second-Order Topological Superconductivity in $\mathbb{Z}_2$ Junction Rashba Layers. <i>Physical Review Letters</i> , <b>2019</b> , 122, 126402	7.4	58
188	Quantum Computation Based on Quantum Adiabatic Bifurcations of Kerr-Nonlinear Parametric Oscillators. <b>2019</b> , 88, 061015		30
187	Measurement of the intrinsic higher harmonic current-phase relation in NbN/NiCu/NbN Josephson junctions. <b>2019</b> , 99,		3
186	Spin polarization and orbital effects in superconductor-ferromagnet structures. <b>2019</b> , 99,		14
185	Andreev reflection and 0- $\pi$ transition in graphene-based antiferromagnetic superconducting junctions. <b>2019</b> , 125, 37001		3
184	The Route to Supercurrent Transparent Ferromagnetic Barriers in Superconducting Matrix. <b>2019</b> , 13, 5655-5661		3
183	In-situ creation and control of Josephson junctions with a laser beam. <b>2019</b> , 114, 142601		1
182	Fraunhofer patterns in magnetic Josephson junctions with non-uniform magnetic susceptibility. <b>2019</b> , 9, 5616		6
181	Magnetic Josephson Junctions on Nb Four-layer Structure for Half Flux Quantum Circuits. <b>2019</b> ,		0
180	Spin-Singlet and Spin-Triplet Josephson Junctions for Cryogenic Memory. <b>2019</b> , 10, 1-5		4
179	Switchable Josephson current in junctions with spin-orbit coupling. <b>2019</b> , 100,		3
178	Sudden magnetization drops in superconductor/ferromagnet bilayered structures. <b>2019</b> , 32, 01LT02		2
177	Epitaxial growth of Pd1Be films on MgO single-crystal substrate. <b>2019</b> , 669, 338-344		10
176	The Josephson Current in an s-Wave Superconductor/Noncentrosymmetric Superconductor Junction. <b>2019</b> , 324-331		
175	Proximity Effects of Superconductivity and Antiferromagnetism in a Nanowire. <b>2019</b> , 32, 1945-1949		2
174	Phase controllable Josephson junctions for cryogenic memory. <b>2019</b> , 32, 015001		9
173	Localized modes in parametrically driven long Josephson junctions with a double-well potential. <b>2019</b> , 52, 015203		3
172	Superconducting Spin-Valve Effect in Structures with a Ferromagnetic Heusler Alloy Layer. <b>2020</b> , 131, 311-321		1



171	Electrical and thermal transport in antiferromagnet-superconductor junctions. <b>2020</b> , 102,	3
170	Anomalous Josephson current in quantum anomalous Hall insulator-based superconducting junctions with a domain wall structure. <b>2020</b> , 29, 097401	4
169	Spin-polarized triplet supercurrent in Josephson junctions with perpendicular ferromagnetic layers. <b>2020</b> , 102,	1
168	$\pi$ phase shifter based on NbN-based ferromagnetic Josephson junction on a silicon substrate. <b>2020</b> , 10, 13687	11
167	Magnetization Dynamics in Proximity-Coupled Superconductor-Ferromagnet-Superconductor Multilayers. <b>2020</b> , 14,	10
166	Josephson effect in type-I Weyl semimetals. <b>2020</b> , 102,	4
165	Supergap and subgap enhanced currents in asymmetric S1FS2 Josephson junctions. <b>2020</b> , 102,	2
164	Signatures of a long-range spin-triplet component in an Andreev interferometer. <b>2020</b> , 102,	0
163	Imprinting Ferromagnetism and Superconductivity in Single Atomic Layers of Molecular Superlattices. <b>2020</b> , 32, e1907645	11
162	Quasiparticle conductance in spin valve Josephson structures. <b>2020</b> , 101,	2
161	A Josephson phase battery. <b>2020</b> , 15, 656-660	25
160	Controllable Josephson Junction Based on a Four-Layer Ferromagnetic Superconductor System (FSFS). <b>2020</b> , 121, 434-438	1
159	Electrodynamics of Highly Spin-Polarized Tunnel Josephson Junctions. <b>2020</b> , 13,	6
158	Magnetic field-controlled 0 $\rightarrow$ $\pi$ transitions and their experimental signatures in superconductor-ferromagnet-superconductor junctions. <b>2020</b> , 116, 092601	1
157	Spin-valve Josephson junctions with perpendicular magnetic anisotropy for cryogenic memory. <b>2020</b> , 116, 022601	8
156	Fermi-arc supercurrent oscillations in Dirac semimetal Josephson junctions. <b>2020</b> , 11, 1150	10
155	MoRe/YBCO Josephson junctions and loops. <b>2020</b> , 33, 044005	2
154	Anomalous current-voltage characteristics of SFIFS Josephson junctions with weak ferromagnetic interlayers. <b>2020</b> , 11, 252-262	2

153	Enhanced spin-triplet pairing in magnetic junctions with s-wave superconductors. <b>2020</b> , 101,	11
152	Domain wall motion in a diffusive weak ferromagnet. <b>2020</b> , 101,	0
151	Magnetic flux pumping in superconducting loop containing a Josephson $\bar{\nu}$ junction. <b>2020</b> , 116, 162601	2
150	Critical supercurrent and $\bar{\nu}$ state for probing a persistent spin helix. <b>2020</b> , 101,	9
149	Competition between BCS and FFLO States in Magnetic Superconductors in a Cryptoferromagnetic Phase. <b>2020</b> , 111, 139-144	
148	Superconductivity and magnetic exchange field coexistence in monolayer MoS <sub>2</sub> . <b>2021</b> , 125, 114388	
147	The Potential of the Josephson Energy. <b>2021</b> , 34, 1629-1632	
146	Low-power high-speed half-flux-quantum circuits driven by low bias voltages. <b>2021</b> , 34, 025013	10
145	Cubic spin-orbit coupling and anomalous Josephson effect in planar junctions. <b>2021</b> , 103,	12
144	Crossover between short- and long-range proximity effects in superconductor/ferromagnet/superconductor junctions with Ni-based ferromagnets. <b>2021</b> , 103,	1
143	Self-consistent solution for the magnetic exchange interaction mediated by a superconductor. <b>2021</b> , 11, 5028	0
142	Minigap Suppression in S(N/F)S Junctions. <b>2021</b> , 113, 631	
141	Pt and CoB trilayer Josephson [Formula: see text] junctions with perpendicular magnetic anisotropy. <b>2021</b> , 11, 11173	1
140	Inverse magnetic hysteresis of the Josephson supercurrent: Study of the magnetic properties of thin niobium/permalloy (Fe <sub>20</sub> Ni <sub>80</sub> ) interfaces. <b>2021</b> , 103,	2
139	Reconfigurable Josephson Phase Shifter. <b>2021</b> , 21, 5240-5246	4
138	Density of states and current-voltage characteristics in SIsFS junctions. <b>2021</b> , 34, 085007	0
137	Reentrant superconductivity in proximity to a topological insulator. <b>2021</b> , 103,	1
136	Influence of the Fermi surface geometry on the Josephson effect between iron-pnictide and conventional superconductors. <b>2021</b> , 103,	2

135	Nb/Au/NbSe <sub>2</sub> hybrid Josephson junctions.	1
134	Ultrastrong photon-to-magnon coupling in multilayered heterostructures involving superconducting coherence via ferromagnetic layers. <b>2021</b> , 7,	2
133	Zeeman-driven parity transitions in an Andreev quantum dot. <b>2021</b> , 103,	0
132	Superconducting spintronics: state of the art and perspectives.	
131	Magnetic-field frustration and chiral-glass to insulator transition in superconducting arrays with random ( $\pi$ ) junctions. <b>2021</b> , 94, 1	1
130	Controllable supercurrent in mesoscopic superconductor-normal metal-ferromagnet crosslike Josephson structures. <b>2021</b> , 34, 095001	1
129	Superconducting Circuits without Inductors Based on Bistable Josephson Junctions. <b>2021</b> , 16,	7
128	High-Speed Memory Driven by SFQ Pulses Based on 0- $\pi$ QUID. <b>2021</b> , 31, 1-6	3
127	Preliminary demonstration of a persistent Josephson phase-slip memory cell with topological protection. <b>2021</b> , 12, 5200	3
126	Curvature-induced long-range supercurrents in diffusive superconductor-ferromagnet-superconductor Josephson junctions with a dynamic 0- $\pi$ transition. <b>2021</b> , 104,	0
125	Reveal the nematic topological superconductivity from the anisotropic unconventional Josephson effect: Theory and application to doped Bi <sub>2</sub> Se <sub>3</sub> . <b>2021</b> , 64, 1	1
124	Demonstration of Interface Circuits Between Half- and Single- Flux- Quantum Circuits. <b>2021</b> , 31, 1-4	3
123	Magnetic Josephson Junctions: New Phenomena and Physics with Diluted Alloy, Conventional Ferromagnet, and Multilayer Barriers. <b>2021</b> , E104.C, 422-428	1
122	Andreev reflection and Josephson effect in the $\sqrt{3}\times\sqrt{3}$ lattice. <b>2021</b> , 104,	1
121	Ballistic SNS sandwich as a Josephson junction. <b>2021</b> , 104,	
120	Magnetization in Superconductor/Ferromagnetic Metal Bilayers Induced by the Inverse Proximity Effect. <b>2021</b> , 122, 847-854	
119	Unconventional supercurrent phase in Ising superconductor Josephson junction with atomically thin magnetic insulator. <b>2021</b> , 12, 5332	1
118	Recent progresses in two-dimensional Ising superconductivity. <b>2021</b> , 21, 100504	1

117	Spin-orbit coupling assisted magnetoanisotropic Josephson effect in ferromagnetic graphene Josephson junctions. <b>2021</b> , 103,	2
116	Electromagnetic Proximity Effect and the Fulde-Ferrell-Larkin-Ovchinnikov Instability in Hybrid Superconductor-Ferromagnet Structures (Brief Review). <b>2021</b> , 113, 92-101	1
115	Josephson Effect in Composite Junctions with Ferromagnetic Materials. <b>2006</b> , 173-187	2
114	Proximity Effect and Interface Transparency in Nb-based S/N and S/F Layered Structures. <b>2006</b> , 241-249	3
113	Emergence of an Interband Phase Difference and Its Consequences in Multiband Superconductors. <b>2017</b> , 185-218	1
112	Phase-Sensitive Tests of Pairing Symmetry in Cuprate Superconductors. <b>2008</b> , 869-921	1
111	Coexistence of Singlet Superconductivity and Magnetic Order in Bulk Magnetic Superconductors and SF Heterostructures. <b>2008</b> , 163-200	0
110	Proximity Effects in Ferromagnet/Superconductor Heterostructures. <b>2008</b> , 251-290	30
109	Extinction and Recovery of Superconductivity by Interference in Superconductor/Ferromagnet Bilayers. <b>2009</b> , 3-11	3
108	Polarity-Dependent Vortex Pinning and Spontaneous Vortex-Antivortex Structures in Superconductor/Ferromagnet Hybrids. <b>2010</b> , 299-322	1
107	Superconductor/Ferromagnet Hybrids: Bilayers and Spin Switching. <b>2010</b> , 323-347	6
106	Numerical Study of Magnetic Flux in the LJJ Model with Double Sine-Gordon Equation. <b>2011</b> , 347-352	4
105	Odd-Frequency Pairing in Superconducting Heterostructures. <b>2011</b> , 117-131	1
104	Physics and Applications of Superconducting Phase Inverters Based on Superconductor-Ferromagnet-Superconductor Josephson Junctions. <b>2011</b> , 219-248	3
103	Bifurcations in Long Josephson Junctions with Second Harmonic in the Current-Phase Relation: Numerical Study. <b>2013</b> , 190-197	0
102	Triplet-blockaded Josephson supercurrent in double quantum dots. <b>2020</b> , 102,	4
101	Fractional topological superconductivity and parafermion corner states. <b>2019</b> , 1,	21
100	Anomalous phase shift in a Josephson junction via an antiferromagnetic interlayer. <b>2019</b> , 1,	4

99	Ferromagnetic Josephson junctions for cryogenic memory. <b>2018</b> ,	5
98	Spontaneous Currents in a Ferromagnet-Normal Metal-Superconductor Trilayer. <b>2006</b> , 109, 507-512	2
97	Recent Progress in Ferromagnet/Superconductor Hybrid Structure and its Applications to Cryogenic Computing. <b>2016</b> , 136, 728-733	4
96	Chernogolovka 2000: Mesoscopic and strongly correlated electron systems The current state of quantum mesoscopics. <b>2001</b> , 171, 1099	5
95	Competition between superconductivity and magnetism in ferromagnet/superconductor heterostructures. <b>2002</b> , 172, 113	56
94	Superconducting currents through a ferromagnet. Phase inversion in structures with Josephson Junctions. <b>2004</b> , 174, 795	2
93	Phase transitions in two-dimensional systems with continuous degeneracy. <b>2006</b> , 176, 233	22
92	Theory of Proximity Effect in Ferromagnet/Superconductor Heterostructures in the Presence of Spin Dependent Interfacial Phase Shift. <b>2012</b> , 51, 010108	1
91	Collective magnetic and plasma excitations in Josephson Junctions. <b>2021</b> , 104,	0
90	Films and Multilayers: Conventional Superconducting. <b>2001</b> , 3181-3187	
89	Pairing Symmetry in Cuprate Superconductors: Phase-Sensitive Tests. <b>2003</b> , 647-723	
88	Triplet Superconductivity in Superconductor/Ferromagnet Multilayered Structures. <b>2004</b> , 101-108	
87	Induced Spin-Splitting at Superconductor-Ferromagnet Interface. <b>2004</b> , 109-119	
86	Theory of magnetic contacts between clean superconductors. <b>2004</b> , 174, 1022	
85	Recent Experimental Results on the Superconductor/Ferromagnet Proximity Effect. <b>2004</b> , 121-144	
84	Theory of Andreev Spectroscopy of Ferromagnets. <b>2004</b> , 145-167	
83	Large Area Nb Nanolayers with Advanced Superconducting Properties as a Base for Superconducting Spintronics. <b>2008</b> , 13-20	
82	Stability Analysis of Kinks in a 0-Josephson Junction. <b>2008</b> , 1, 99	

- 81 Frontiers Problems of the Josephson Effect: From Macroscopic Quantum Phenomena Decay to High-Tc Superconductivity. **2010**, 105-135
- 80 Interplay Between Ferromagnetism and Superconductivity. **2010**, 349-388
- 79 Electronic Transport Properties of Superconductor/Ferromagnet Hybrid Structures. **2010**, 155-178
- 78 Change in the sign of the magnetoresistance effect in bilayer superconductor/ferromagnet structures under change in the type of the domain structure in the ferromagnet. **2010**, 87, 175
- 77 Quantum Computation: Principles and Solid-State Concepts.
- 76 Josephson effect in ferromagnetic d-wave superconductor/ferromagnet/ferromagnetic d-wave superconductor junctions. **2013**, 62, 047401 1
- 75 Josephsonkontakte und ihre Eigenschaften. 327-379
- 74 Basic Properties of the Josephson Effect. **2019**, 81-116
- 73 Josephson Junctions for Digital Applications. **2019**, 611-701 2
- 72 Phase-controlled spin and charge currents in a superconductor-ferromagnet hybrid. **2020**, 2, 0
- 71 Supercurrent transmission through Ni/Ru/Ni synthetic antiferromagnets. **2021**, 119, 172603 0
- 70 Superconducting triplet pairings and anisotropic magnetoresistance effects in ferromagnet/superconductor/ferromagnet double-barrier junctions. **2021**, 104, 1
- 69 Exotic Proximity Effects in Superconductor/Ferromagnet Structure. **2004**, 251-274
- 68 Depairing Currents in Bilayers of Nb/Pd89Ni11. **2006**, 189-196
- 67 Superconductor-Ferromagnet Heterostructures. **2006**, 197-224
- 66 II.2 Cuprate and other unconventional superconductors. **2007**, 317-324
- 65 Magnetic proximity effect in multiband superconductor/ferromagnetic metal structures. **2020**, 46, 1074-1082
- 64 Van der Waals ferromagnetic Josephson junctions. **2021**, 12, 6580 4

63	Realization of 0- $\pi$ states in superconductor/ferromagnetic insulator/superconductor Josephson junctions: The role of spin-orbit interaction and lattice impurities. <b>2021</b> , 104,	1
62	Giant oscillatory Gilbert damping in superconductor/ferromagnet/superconductor junctions. <b>2021</b> , 7, eabh3686	1
61	Extremely long-range, high-temperature Josephson coupling across a half-metallic ferromagnet. <b>2021</b> ,	3
60	Investigation of the Inverse Magnetic Hysteresis of the Josephson Supercurrent in Magnetic Josephson Junctions. <b>2022</b> , 32, 1-5	1
59	Coexistence and tuning of spin-singlet and triplet transport in spin-filter Josephson junctions. <b>2022</b> , 5,	3
58	Anomalous Josephson effect.	1
57	Anomalous Josephson effect.	0
56	Supercurrent decay in ballistic magnetic Josephson junctions. <b>2022</b> , 8,	1
55	Singlet-triplet conversion by tuning Rashba spin-orbit interaction and superconducting phase difference in a Josephson junction. <b>2022</b> , 592, 1354003	
54	Quasiclassical boundary conditions for spin-orbit coupled interfaces with spin-charge conversion. <b>2022</b> , 105,	0
53	Controlling charge and spin transport in an Ising-superconductor Josephson junction. <b>2021</b> , 104,	0
52	Superconducting Quantum Oscillation Phenomena in Low-Dimensional Superconductors. <b>2022</b> ,	1
51	Giant electromagnetic proximity effect in superconductor/ferromagnet superlattices. <b>2022</b> , 105,	0
50	Artificial synapses based on Josephson junctions with Fe nanoclusters in the amorphous Ge barrier. <b>2022</b> , 131, 073902	3
49	Signatures of superconducting triplet pairing in NiTa-bilayer junctions. <b>2022</b> , 24, 033046	1
48	Charge and spin supercurrents in magnetic Josephson junctions with spin filters and domain walls. <b>2022</b> , 105,	
47	Light-modulated Josephson effect in Kekulé-patterned graphene. <b>2022</b> , 105,	0
46	Supercurrent-induced long-range triplet correlations and controllable Josephson effect in superconductor/ferromagnet hybrids with extrinsic spin-orbit coupling. <b>2022</b> , 105,	0

45	Role of disorder in the superconducting proximity effect in aPdNi5/Nb bilayers. <b>2021</b> , 104,	
44	Anomalous Andreev interferometer: Study of an anomalous Josephson junction coupled to a normal wire. <b>2021</b> , 104,	
43	Drag Voltages in a Superconductor/Insulator/Ferromagnet Trilayer.. <b>2021</b> , 14,	1
42	Josephson effect in superconductor/normal-dot/superconductor junctions driven out of equilibrium by quasiparticle injection. <b>2022</b> , 105,	0
41	Weak spin-flip scattering in PdNi interlayer of NbN-based ferromagnetic Josephson junctions.. <b>2022</b> , 12, 6863	0
40	Negative critical currents in single-channel Josephson junctions. <b>2022</b> , 105,	0
39	Proximity-induced superconducting gap in the intrinsic magnetic topological insulator MnBi2Te4. <b>2022</b> , 105,	0
38	Magnetoelectric effects in Josephson junctions.	2
37	van der Waals $\pi$ Josephson Junctions.	1
36	Electron tunneling spectroscopy of an anisotropic Kitaev quantum spin liquid sandwiched between superconductors. <b>2022</b> , 4,	
35	Aluminum-ferromagnetic Josephson tunnel junctions for high quality magnetic switching devices. <b>2022</b> , 120, 262601	1
34	Nonvolatile memory cell using a superconducting-ferromagnetic $\pi$ Josephson junction.	0
33	Current through a hybrid four-terminal Josephson junction with Majorana nanowires.	
32	Effective Exchange Energy in a Thin, Spatially Inhomogeneous CuNi Layer Proximized by Nb. 6400-6406	
31	Superconducting quantum interference at the atomic scale.	0
30	Proximity effect between superconductors and ferromagnets: from thin films to nanostructures. <b>2005</b> , 517, 591-601	
29	Enhancement of supercurrent through ferromagnetic materials by interface engineering. <b>2022</b> , 106,	1
28	Phase Logic Based on $\pi$ Josephson Junctions. <b>2022</b> , 115, 735-741	0



- 27 Experimental and theoretical study of field-dependent spin splitting at ferromagnetic insulator/superconductor interfaces. 13, 682-688 ○
- 26 Interference phenomena in Josephson junctions with ferromagnetic bilayers: Spin-triplet correlations and resonances. **2022**, 106, ○
- 25 Variation in the superconducting properties of  $\text{Bi}_{1.75}\text{Pb}_{0.25}\text{Sr}_2\text{Ca}_2\text{Cu}_3\text{O}_{10+n}$  in proximity with  $\text{Pr}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ . **2022**, 126, 103542 ○
- 24 Tunable Planar Josephson Junctions Driven by Time-Dependent Spin-Orbit Coupling. **2022**, 18, 1
- 23 Asymmetric higher-harmonic SQUID as a Josephson diode. **2022**, 106, ○
- 22 Long Single Au Nanowires in Nb/Au/Nb Josephson Junctions: Implications for Superconducting Microelectronics. 1
- 21 Proximity effect and quasi-particle-lifetime effect in ferromagnet/f-wave superconductor junctions. **2022**, 603, 1354157 ○
- 20 Proximity effect in oxide superconductor/ferromagnet films. **2004**, 516, 93-94 ○
- 19 Superconductor/Ferromagnet Heterostructures: A Platform for Superconducting Spintronics and Quantum Computation. 2200080 ○
- 18 Signatures of current in a four-terminal topological Josephson junction. **2023**, 360, 115032 ○
- 17 Density of states in the presence of spin-dependent scattering in SF bilayers: a numerical and analytical approach. 13, 1418-1431 ○
- 16 Energy distribution controlled ballistic Josephson junction. **2022**, 106, ○
- 15 Chiral Magnetic Josephson Junction as a Base for Low-Noise Superconducting Qubits. **2022**, 8, 657 1
- 14 Anomalous Josephson effect in planar noncentrosymmetric superconducting devices. **2022**, 106, ○
- 13 Direct observations of leaps of superconducting phase differences in junction-based SQUIDs. ○
- 12 Symmetry Broken Josephson Junctions and Superconducting Diodes in Magic Angle Twisted Bilayer Graphene. ○
- 11 Triplet odd-frequency superconductivity in hybrid superconductor/ferromagnet structures. **2023**, 169232 ○
- 10 Enhanced Josephson coupling in hybrid nanojunctions. **2023**, 107, ○

- 9 Optimization of Half-Flux-Quantum Circuits Composed of Shift and Conventional Josephson Junctions. **2023**, 33, 1-5
- 8 Competition of Quasiparticles and Magnetization Noise in Hybrid Ferromagnetic Transmon Qubits. **2023**, 33, 1-6
- 7 Supercurrent reversal in ferromagnetic hybrid nanowire Josephson junctions. **2023**, 107,
- 6 Cryogenic memory technologies. **2023**, 6, 185-198
- 5 Subgap modes in two-dimensional magnetic Josephson junctions. **2023**, 107,
- 4 Magnetization Dynamics in Proximity-Coupled Superconductor-Ferromagnet-Superconductor Multilayers. II. Thickness Dependence of the Superconducting Torque. **2023**, 19,
- 3 Observation of anomalous Josephson effect in nonequilibrium Andreev interferometers. **2023**, 107,
- 2 Josephson junctions. **2023**,
- 1 Superconductor-ferromagnet hybrid structures. **2023**,