Peter Samuely

List of Publications by Year
in descending order

131 papers	2,294 citations	257450 24 h-index	233421 45 g-index
132 all docs	132 docs citations	132 times ranked	1941 citing authors

#	Article	IF	Citations
1	Evidence for Two Superconducting Energy Gaps inMgB2by Point-Contact Spectroscopy. Physical Review Letters, 2001, 87, 137005.	7.8	492
2	Anisotropy of the upper critical field and critical current in single crystalMgB2. Physical Review B, 2002, 66, .	3.2	176
3	Evidence for two-gap superconductivity inBa0.55K0.45Fe2As2from directional point-contact Andreev-reflection spectroscopy. Physical Review B, 2009, 79, .	3.2	93
4	Tunneling in theabplane of the high-TcsuperconductorBi2Sr2CaCu2O8+Îˆin high magnetic fields. Physical Review B, 1994, 49, 9823-9830.	3.2	72
5	Possible two-gap superconductivity in NdFeAsO_{0.9}F_{0.1}probed by point-contact Andreev-reflection spectroscopy. Superconductor Science and Technology, 2009, 22, 014003.	3.5	63
6	Point contact Andreev reflection spectroscopy of superconducting energy gaps in 122-type family of iron pnictides. Physica C: Superconductivity and Its Applications, 2009, 469, 507-511.	1.2	60
7	Systematic study of two-band/two-gap superconductivity in carbon-substitutedMgB2by point-contact spectroscopy. Physical Review B, 2004, 70, .	3.2	54
8	Two-band/two-gap superconductivity in carbon-substitutedMgB2evidenced by point-contact spectroscopy. Physical Review B, 2003, 68, .	3.2	53
9	Specific heat measurements of a superconducting<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>NbS</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:ms crystal in an external magnetic field: Energy gap structure. Physical Review B, 2010, 82, .	3.2	52
10	Energy gap of intermediate-valentSmB6studied by point-contact spectroscopy. Physical Review B, 2001, 64, .	3.2	44
11	Point-contact spectroscopy of Al- and C-dopedMgB2: Superconducting energy gaps and scattering studies. Physical Review B, 2007, 75, .	3.2	42
12	Single-gap superconductivity in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î²</mml:mi><mml:mtext>â^'</mml:mtext><mml:mi mathvariant="normal">B</mml:mi><mml:msub><mml:mi mathvariant="normal">i</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>Pd</mml:mi></mml:mrow></mml:math>. Physical Review B, 2016, 93, .	3.2	40
13	Point-contact spectroscopy of MgB2. Physica C: Superconductivity and Its Applications, 2003, 385, 244-254.	1.2	38
14	Tunneling measurements of the electron-phonon interaction inBa1â^'xKxBiO3. Physical Review B, 1993, 48, 13904-13910.	3.2	37
15	Vortex-glass transition in the(K,Ba)BiO3cubic superconductor. Physical Review B, 1998, 58, 12411-12415.	3.2	37
16	Low Temperature Properties and Superconductivity of LuB12. Journal of Low Temperature Physics, 2005, 140, 339-353.	1.4	37
17	Coherent one-particle excitation spectrum and strong-coupling features in the tunneling conductance with the high-Tc superconductor Bi2Sr2CaCu2Ox. Physica C: Superconductivity and Its Applications, 1992, 198, 47-52.	1.2	35
18	Influence of Al doping on the critical fields and gap values in magnesium diboride single crystals. Physical Review B, 2006, 73, .	3.2	35

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19	Superconducting phase diagram of single-crystal MgB2. Physica C: Superconductivity and Its Applications, 2003, 385, 154-161.	1.2	34
20	Fermionic scenario for the destruction of superconductivity in ultrathin MoC films evidenced by STM measurements. Physical Review B, 2016, 93, .	3.2	34
21	Critical fluctuations in the carbon-doped magnesium diboride. Physica C: Superconductivity and Its Applications, 2004, 404, 195-199.	1.2	31
22	Comment on â€œBand Filling and Interband Scattering Effects inMgB2: Carbon versus Aluminium Dopingâ€• Physical Review Letters, 2005, 95, 099701; discussion 099702.	7.8	28
23	Superconducting Ferromagnetic Nanodiamond. ACS Nano, 2017, 11, 5358-5366.	14.6	25
24	Anomalous Magnetic Field Dependence of the Thermodynamic Transition Line in the Isotropic Superconductor(K,Ba)BiO3. Physical Review Letters, 2002, 88, 177201.	7.8	24
25	Upper critical field in Ba 1 â^' x K x BiO 3 : Magnetotransport vs. magnetotunneling. Europhysics Letters, 1998, 41, 207-212.	2.0	23
26	High-pressure effect on the superconductivity of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">YB</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:math>. Physical Review B, 2014, 90, .	3.2	23
27	Half-metallic Ni2MnSn Heusler alloy prepared by rapid quenching. Journal of Magnetism and Magnetic Materials, 2015, 386, 98-101.	2.3	23
28	Interlayer Transport in the Highly Anisotropic Misfit-Layer Superconductor (LaSe)1.14(NbSe2). Physical Review Letters, 2001, 86, 5990-5993.	7.8	22
29	Finite quasiparticle lifetime in disordered superconductors. Physical Review B, 2015, 92, .	3.2	21
30	Heat capacity of single-crystal Cu<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mi>x</mml:mi></mml:msub></mml:math>TiSe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>superconductors. Physical Review B, 2013, 88, .	3.2	20
31	Point-contact spectroscopy of the electron-phonon interaction in single-crystal LaB6. Journal of Low Temperature Physics, 1988, 71, 49-61.	1.4	19
32	Gap formation in Kondo insulator FeSi: Point contact spectroscopy. Physica B: Condensed Matter, 1996, 218, 185-188.	2.7	17
33	Two-dimensional behavior of the naturally layered superconductor (LaSe)1.14(NbSe2). Physica C: Superconductivity and Its Applications, 2002, 369, 61-67.	1.2	17
34	Superconducting energy gap in URu2Si2. Physica B: Condensed Matter, 1995, 206-207, 612-614.	2.7	16
35	Bosonic Confinement and Coherence in Disordered Nanodiamond Arrays. ACS Nano, 2017, 11, 11746-11754.	14.6	16
36	Magnetic pair breaking in superconductingBa1â^'xKxBiO3investigated by magnetotunneling. Physical Review B, 2000, 62, 3502-3507.	3.2	15

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37	Upper critical magnetic fields in single crystal MgB2. Superconductor Science and Technology, 2003, 16, 193-198.	3.5	14
38	Far-infrared electrodynamics of thin superconducting NbN film in magnetic fields. Superconductor Science and Technology, 2014, 27, 055009.	3.5	14
39	Scaling of the superconducting order parameter in Bi cuprates with Tc. Physica C: Superconductivity and Its Applications, 1995, 246, 163-168.	1.2	13
40	Superconducting energy gap in MgCNi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>single crystals: Point-contact spectroscopy and specific-heat measurements. Physical Review B, 2011, 83, .	3.2	13
41	Pressure effect on the superconducting and the normal state of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î²</mml:mi><mml:mo>â^'</mml:mo><mml:mi mathvariant="normal">B</mml:mi><mml:msub><mml:mi mathvariant="normal">i</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>Pd</mml:mi></mml:mrow></mml:math>. Physical Review B, 2018, 97, .	3.2	13
42	Superconducting energy gap of YB6 studied by point-contact spectroscopy. Physica C: Superconductivity and Its Applications, 2007, 460-462, 626-627.	1.2	12
43	Conventional superconductivity in SrPd<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Ge<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2012, 85, .	3.2	12
44	Andreev reflection on the Agâ^'BaPb1â^'xBi x O3 microconstriction: Temperature and magnetic field dependence. Journal of Low Temperature Physics, 1997, 106, 291-296.	1.4	11
45	Intraband scattering studies in carbon- and aluminium-doped MgB2. Physica C: Superconductivity and Its Applications, 2006, 435, 71-73.	1.2	11
46	Point-contact spectroscopy of the phononic mechanism of superconductivity in YB6. Superconductor Science and Technology, 2013, 26, 045019.	3.5	11
47	Extreme in-plane upper critical magnetic fields of heavily doped quasi-two-dimensional transition metal dichalcogenides. Physical Review B, 2021, 104, .	3.2	11
48	Magnetotransport and the upper critical magnetic field in MgB2. Physica C: Superconductivity and Its Applications, 2002, 369, 250-253.	1.2	10
49	Superconducting and normal state properties of carbon doped and neutron irradiated MgB2. Physica C: Superconductivity and Its Applications, 2007, 456, 108-116.	1.2	10
50	Single-gap superconductivity in Mo8Ga41. Scientific Reports, 2019, 9, 13552.	3.3	10
51	Enhanced Superconductivity in Nanosized Tips of Scanning Tunnelling Microscope. Acta Physica Polonica A, 2010, 118, 1038-1039.	0.5	10
52	Tunneling measurements on a BiSrCuO single crystal up to the critical magnetic field. European Physical Journal B, 1991, 83, 343-346.	1.5	9
53	Magnetic properties and gap formation in FeSi. Journal of Magnetism and Magnetic Materials, 1996, 157-158, 637-638.	2.3	9
54	Yu-Shiba-Rusinov bands in ferromagnetic superconducting diamond. Science Advances, 2020, 6, eaaz2536.	10.3	9

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55	Point contact spectroscopy of U2Zn17. Solid State Communications, 1987, 61, 79-82.	1.9	8
56	POINT-CONTACT PROPERTIES OF YBa2Cu3O7â˜Î´ AND SmBa2Cu3O7â˜Î´. Modern Physics Letters B, 1988, 02, 1269-1277.	1.9	8
57	Scanning Tunneling Microscopy and Spectroscopy of (LaSe)1.14(NbSe2) at Very Low Temperatures and in Magnetic Field. European Physical Journal D, 2004, 54, 489-492.	0.4	8
58	Aluminum and carbon substitution in MgB2. Electron doping and scattering effects. Physica C: Superconductivity and Its Applications, 2007, 460-462, 84-88.	1.2	7
59	Novel graphene/Sn and graphene/SnOx hybrid nanostructures: Induced superconductivity and band gaps revealed by scanning probe measurements. Carbon, 2017, 124, 611-617.	10.3	7
60	Superconducting energy gap in Ba1â˜xKxBiO3: Temperature dependence. Physica C: Superconductivity and Its Applications, 1994, 235-240, 1873-1874.	1.2	6
61	Magnetic and thermodynamic properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cu</mml:mi><mml:mi>x</mml:mi></mml:msub></mml:mrow></mml:math> single crystals. Physical Review B, 2017, 95, .	3.2	6
62	On the origin of in-gap states in homogeneously disordered ultrathin films. MoC case. Applied Surface Science, 2018, 461, 143-148.	6.1	6
63	Influence of high magnetic fields on the classical and quantum-mechanical transport in point contacts. Physical Review Letters, 1991, 66, 786-789.	7.8	5
64	Upper critical field in highly anisotropic superconductor (LaSe)1.14(NbSe2). Physica B: Condensed Matter, 2000, 284-288, 961-962.	2.7	5
65	Andreev reflection spectroscopy of MgB2 in the vortex state. Physica C: Superconductivity and Its Applications, 2004, 404, 460-465.	1.2	5
66	Energy gaps in doped MgB2. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 1743-1748.	0.8	5
67	Studies on two-gap superconductivity in 2Hâ€“NbS2. Physica C: Superconductivity and Its Applications, 2010, 470, S719-S720.	1.2	5
68	Type II superconductivity in SrPd₂Ge₂. Superconductor Science and Technology, 2013, 26, 015010.	3.5	5
69	Anomalous Anisotropy in Superconducting Nanodiamond Films Induced by Crystallite Geometry. Physical Review Applied, 2019, 12, .	3.8	5
70	Observation of quantum corrections to conductivity up to optical frequencies. Physical Review B, 2019, 100, .	3.2	5
71	Superconductor-insulator transition driven by pressure-tuned intergrain coupling in nanodiamond films. Physical Review Materials, 2019, 3, .	2.4	5
72	Two-Gap Superconductivity in 2H-NbS₂. Acta Physica Polonica A, 2010, 118, 1024-1025.	0.5	5

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73	Local Magnetometry of Superconducting Mo₈Ga₄₁ and Mo₇VGa₄₁: Vortex Pinning Study. Acta Physica Polonica A, 2020, 137, 794-796.	0.5	5
74	Point-contact spectroscopy of the electron-phonon interaction in LaNi5. European Physical Journal B, 1990, 79, 191-194.	1.5	4
75	From superconducting to normal density of states of Ba1â^'xKxBiO3 by tunneling in high magnetic fields. Physica B: Condensed Matter, 1994, 194-196, 1747-1748.	2.7	4
76	Study of energy gap features in BSCCO superconductors. Physica C: Superconductivity and Its Applications, 1994, 235-240, 1125-1126.	1.2	4
77	Superconducting energy gap in Bi-cuprates. Physica B: Condensed Matter, 1996, 218, 217-219.	2.7	4
78	Vortex-glass transition and fishtail effect in the cubic (K,Ba)BiO3 superconductor. Physica C: Superconductivity and Its Applications, 1999, 317-318, 436-440.	1.2	4
79	Point-contact spectroscopy of MgB2 in high magnetic fields. Physica C: Superconductivity and Its Applications, 2003, 388-389, 145-146.	1.2	4
80	Andreev-reflection study in MgB2. Superconductor Science and Technology, 2003, 16, 162-166.	3.5	4
81	Energy gaps in carbon-substituted MgB2. Physica C: Superconductivity and Its Applications, 2004, 408-410, 610-611.	1.2	4
82	Observation of a transverse Meissner effect inCuxTiSe2single crystals. Physical Review B, 2016, 93, .	3.2	4
83	Suppression of the superconductivity in ultrathin amorphous Mo78Ge22 films observed by STM. Low Temperature Physics, 2017, 43, 919-923.	0.6	4
84	One or two gaps in Mo₈Ga₄₁ superconductor? Local Hall-probe magnetometry study. Superconductor Science and Technology, 2021, 34, 035017.	3.5	4
85	Point contact properties of YBaCuO and SmBaCuO. Physica C: Superconductivity and Its Applications, 1988, 153-155, 1387-1388.	1.2	3
86	Andreev reflection measurements on the 2D superconductor (LaSe)1.14(NbSe2)2. Physica B: Condensed Matter, 1999, 259-261, 985-986.	2.7	3
87	Point-contact spectroscopy of LuB12. European Physical Journal D, 2002, 52, A221-A224.	0.4	3
88	Dynamics of boron nanoclusters in RB12 (R = Yb, Lu) systems. Crystallography Reports, 2006, 51, S139-S143.	0.6	3
89	Intrinsic Josephson junction behaviour of the low Tc superconductor (LaSe)1.14(NbSe2). Physica C: Superconductivity and Its Applications, 2008, 468, 543-546.	1.2	3
90	Specific heat of superconducting MgCNi₃single crystals. Journal of Physics: Conference Series, 2009, 150, 052087.	0.4	3

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91	Magnetic Pair Breaking in Superconducting SrPd2Ge2 Investigated by Scanning Tunnelling Spectroscopy. Journal of Superconductivity and Novel Magnetism, 2013, 26, 1199-1203.	1.8	3
92	Strong-Coupling Features in YB₆and ZrB₁₂Studied by Point-Contact Spectroscopy. Acta Physica Polonica A, 2010, 118, 1042-1044.	0.5	3
93	Point Contact Measurements on U2Zn17. Japanese Journal of Applied Physics, 1987, 26, 567.	1.5	3
94	Point-contact spectroscopy in arsenic: Classical and quantum-mechanical trajectory effects. Physica B: Condensed Matter, 1990, 165-166, 917-918.	2.7	2
95	Ground state properties of SmB6. Physica B: Condensed Matter, 2002, 312-313, 379-380.	2.7	2
96	Title is missing!. European Physical Journal D, 2002, 52, 299-302.	0.4	2
97	Superconducting energy gap in MgCNi3 single crystals. Journal of Physics and Chemistry of Solids, 2008, 69, 3011-3013.	4.0	2
98	Strong coupling features in the point-contact spectra of the YB₆superconductor. Journal of Physics: Conference Series, 2009, 150, 052253.	0.4	2
99	Local Magnetometry of Cu_{0.064}TiSe_{2}. Acta Physica Polonica A, 2014, 126, 370-371.	0.5	2
100	Unconventional superconductivity in the strong-coupling limit for the heavy fermion system CeCoIn5. Physica B: Condensed Matter, 2018, 536, 798-802.	2.7	2
101	AC Microcalorimetry of Superconducting MgCNi₃Single Crystals. Acta Physica Polonica A, 2008, 113, 363-366.	0.5	2
102	Phase Diagram of TmB4Probed by AC Calorimetry. Acta Physica Polonica A, 2010, 118, 903-904.	0.5	2
103	Periodic Surface Modulation of (LaSe)_{1.14}(NbSe₂) Observed by Scanning Tunneling Microscopy. Acta Physica Polonica A, 2020, 137, 785-787.	0.5	2
104	Experimental Study of the Electron-Phonon Interaction in LaB6. Japanese Journal of Applied Physics, 1987, 26, 647.	1.5	1
105	Break-junction tunneling experiments for Bi2Sr2CaCu2Ox in a strong magnetic field. Physica B: Condensed Matter, 1994, 194-196, 1767-1768.	2.7	1
106	Upper critical magnetic field in the superconducting bismuthates studied by the point-contact spectroscopy. European Physical Journal D, 1996, 46, 847-848.	0.4	1
107	Upper critical field in the Ba1â^'xKxBiO3 superconductor. Physica C: Superconductivity and Its Applications, 1997, 282-287, 2049-2050.	1.2	1
108	Magnetotunneling and magnetic pair-breaking in superconducting Ba1â^'xKxBiO3. Physica B: Condensed Matter, 2000, 284-288, 977-978.	2.7	1

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109	VORTEX GLASS TRANSITION VERSUS IRREVERSIBILITY LINE IN SUPERCONDUCTING BKBO. International Journal of Modern Physics B, 2002, 16, 3221-3221.	2.0	1
110	Andreev reflection spectroscopy in MgB2. Physica B: Condensed Matter, 2003, 328, 10-14.	2.7	1
111	Two-band Effects in the Critical Fields of MgB2. European Physical Journal D, 2004, 54, 449-452.	0.4	1
112	Determination of the upper critical magnetic fields from fluctuation conductivity. Physica C: Superconductivity and Its Applications, 2004, 415, 15-20.	1.2	1
113	Two gap superconductivity inBa0.55K0.45Fe2As2single crystals studied by the directional point-contact Andreev reflection spectroscopy. Physica B: Condensed Matter, 2009, 404, 3220-3222.	2.7	1
114	Superconducting density of states and vortex studies on SrPd2Ge2. Physica C: Superconductivity and Its Applications, 2012, 479, 95-97.	1.2	1
115	Influence of Pressure on Superconductivity in YB_{6}. Acta Physica Polonica A, 2014, 126, 340-341.	0.5	1
116	Specific Heat Study of Superconductivity in Cu_{0.061}TiSe_{2}. Acta Physica Polonica A, 2014, 126, 322-323.	0.5	1
117	Sub-kelvin Andreev reflection spectroscopy of superconducting gaps in FeSe. Low Temperature Physics, 2019, 45, 1222-1226.	0.6	1
118	Point-Contact Spectroscopy of Multigap Superconductors. Nanoscience and Technology, 2010, , 187-210.	1.5	1
119	Suppressed Superconductivity in Ultrathin Mo2N Films due to Pair-Breaking at the Interface. Journal of Superconductivity and Novel Magnetism, 0, , 1.	1.8	1
120	Upper critical field of Ba1?x K x BiO3 measured by magnetotunneling spectroscopy. Journal of Low Temperature Physics, 1996, 105, 1237-1242.	1.4	0
121	TRANSPORT IN MgB2 IN HIGH MAGNETIC FIELDS. International Journal of Modern Physics B, 2002, 16, 3222-3222.	2.0	0
122	Point-contact Spectroscopy on Nb/CuMn Bilayers. European Physical Journal D, 2004, 54, 465-468.	0.4	0
123	Development of Two Superconducting Energy Gaps in the Aluminum Doped MgB2. AIP Conference Proceedings, 2006, , .	0.4	0
124	Ï€-band Goes Dirty by Carbon Doping in MgB2?. AIP Conference Proceedings, 2006, , .	0.4	0
125	Influence of Al doping on the gap values in MgB2 single crystals. Physica C: Superconductivity and Its Applications, 2007, 460-462, 562-563.	1.2	0
126	Vortices at nanoscale: Still some room at the bottom. Annalen Der Physik, 2013, 525, A185.	2.4	0

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127	Superconductivity Near Transition to Insulating State in MoC Ultrathin Films Studied by Subkelvin STM. Acta Physica Polonica A, 2014, 126, 368-369.	0.5	0
128	Point-Contact Spectroscopy of Superconducting MgCNi₃Single Crystals. Acta Physica Polonica A, 2008, 113, 215-218.	0.5	0
129	Point Contact Spectroscopy Measurements of Ba(Fe0.96Co0.04)2As2Single Crystals. Acta Physica Polonica A, 2010, 118, 1045-1046.	0.5	0
130	Superconducting Density of States in B-Doped Diamond. Acta Physica Polonica A, 2017, 131, 1033-1035.	0.5	0
131	POINT-CONTACT SPECTROSCOPY OF Tm. Journal De Physique Colloque, 1988, 49, C8-359-C8-360.	0.2	0