

# Jörg Sichelschmidt

## List of Publications by Year in descending order

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111  
papers

1,927  
citations

218677

26  
h-index

302126

39  
g-index

111  
all docs

111  
docs citations

111  
times ranked

1791  
citing authors

#	ARTICLE	IF	CITATIONS
1	Diluting a triangular-lattice spin liquid: Synthesis and characterization of $\text{SNaYb}_2\text{Cr}_2\text{S}_6$ single crystals. <i>Physical Review Materials</i> , 2022, 6, .	2.4	5
2	Slow crystalline electric field fluctuations in the Kondo lattice $\text{SmB}_6$ . <i>Physical Review B</i> , 2022, 105, .		
3	Magnetic and Electronic Properties of Weyl Semimetal $\text{Co}_2\text{MnGa}$ Thin Films. <i>Nanomaterials</i> , 2021, 11, 251.	4.1	21
4	Quasi-one-dimensional magnetism in the spin-antiferromagnet $\text{BaNa}_2\text{Pt}_2\text{S}_6$ . <i>Physical Review B</i> , 2021, 103, .	3.2	12
5	Magnetocrystalline anisotropies in $\text{MnPtSn}$ thin films. <i>APL Materials</i> , 2021, 9, .	5.1	3
6	Optical evidence of local and itinerant states in Ce- and Yb-heavy-fermion compounds. <i>Electronic Structure</i> , 2021, 3, 024007.	2.8	2
7	Yb delafossites: Unique exchange frustration of spin- $\frac{1}{2}$ moments on a perfect triangular lattice. <i>Physical Review B</i> , 2021, 103, .	3.2	23
8	Systematic manipulation of the surface conductivity of $\text{SmB}_6$ . <i>Physical Review Research</i> , 2021, 3, .	3.6	4
9	Surface excitations relaxation in the Kondo insulator $\text{SmB}_6$ . <i>Physical Review Research</i> , 2021, 3, .	3.6	3
10	Electron spin resonance of the itinerant ferromagnets $\text{LaCrGe}_3$ , $\text{CeCrGe}_3$ and $\text{PrCrGe}_3$ . <i>Journal of Physics Condensed Matter</i> , 2021, 33, 495605.	1.8	2
11	Planar triangular magnet $\text{AgCrSe}_2$ : Magnetic frustration, short range correlations, and field-tuned anisotropic cycloidal magnetic order. <i>Physical Review B</i> , 2021, 104, .	3.2	13
12	Optical study of the electronic structure of locally noncentrosymmetric $\text{CePt}_2\text{S}_7$ . <i>Physical Review B</i> , 2021, 104, .		
13	Revisiting the Possible $4f_7 5d_1$ Ground State of Gd Impurities in $\text{SmB}_6$ by Electron Spin Resonance. , 2020, , .		1
14	Effective Spin-1/2 Moments on a $\text{Yb}^{3+}$ Triangular Lattice: An ESR Study. , 2020, , .		11
15	Gapless Quantum Spin Liquid in the Triangular System $\text{Sr}_3\text{O}_9$ . <i>Physical Review Letters</i> , 2020, 125, 067202.		
16	Metallic islands in the Kondo insulator $\text{SmB}_6$ . <i>Physical Review Research</i> , 2020, 2, .		
17	Magneto-Optics of the Weyl Semimetal TaAs in the THz and IR Regions. , 2020, , .		0
18	Uniaxial and fourfold basal anisotropy in $\text{GdRh}_2\text{Si}_2$ . <i>Journal of Physics Condensed Matter</i> , 2020, 32, 495801.	1.8	0

#	ARTICLE	IF	CITATIONS
19	Bose-Einstein condensation of triplons close to the quantum critical point in the quasi-one-dimensional spin-1 antiferromagnet $\text{NaVOPO}_4$ . Physical Review B, 2019, 100, .	3.2	13
20	Singlet ground state in the alternating spin-1/2 chain compound $\text{NaVOAsO}_4$ . Physical Review B, 2019, 99, .	3.2	11
21	Kondo-lattice ferromagnets and their peculiar order along the magnetically hard axis determined by the crystalline electric field. Physical Review B, 2019, 99, .	3.2	16
22	Field-induced instability of the quantum spin liquid ground state in the triangular-lattice compound $\text{NaYbO}_2$ . Physical Review B, 2019, 99, .	3.2	86
23	Microscopic investigation of low dimensional magnet $\text{Sc}_2\text{Cu}_2\text{O}_5$ : combined experimental and <i>ab initio</i> approach. Journal of Physics Condensed Matter, 2019, 31, 245802.	1.8	9
24	Electron spin resonance on the spin-1/2 triangular magnet $\text{NaYbS}_2$ . Journal of Physics Condensed Matter, 2019, 31, 205601.	1.8	30
25	Anisotropic field-induced ordering in the triangular-lattice quantum spin liquid $\text{NaYbSe}_2$ . Physical Review B, 2019, 99, .	3.2	92
26	Case study of bilayered spin-1 square lattice compound		

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37	Paramagnetic resonance in GdRh <sub>2</sub> Si <sub>2</sub> . Journal of Physics: Conference Series, 2017, 807, 012007.	0.4	3
38	A novel europium (III) nitridoborate Eu <sub>3</sub> [B <sub>3</sub> N <sub>6</sub> ]: Synthesis, crystal structure, magnetic properties, and Raman spectra. Journal of Solid State Chemistry, 2016, 239, 75-83.	2.9	4
39	Spectroscopic study of metallic magnetism in single-crystalline $\text{NbFe}_2$ . Physical Review B, 2015, 91, .	3.2	11
40	Ytterbium ESR in a lattice with weak coupling: the case of YbPt <sub>2</sub> Sn. Journal of Physics: Conference Series, 2015, 592, 012017.	0.4	3
41	Magnetic dimers and trimers in the disordered system $\text{BaTi}_2\text{S}_3$ . Physical Review B, 2014, 89, .	3.2	11
42	Antiferromagnetism of $\text{Zn}_2\text{Ti}$ the dilution with $\text{Ti}$ . Physical Review B, 2015, 91, .	3.2	20
43	Hindered magnetic order from mixed dimensionalities in $\text{CuP}_2$ . Physical Review B, 2014, 89, .	3.2	20
44	Probing the density of states in $\text{EuFe}_2\text{Ru}_2\text{As}_2$ . Physical Review B, 2014, 90, .	3.2	2
45	Synthesis, crystal structure and magnetic properties of Li <sub>0.44</sub> Eu <sub>3</sub> [B <sub>3</sub> N <sub>6</sub> ]. Journal of Solid State Chemistry, 2014, 210, 96-101.	2.9	2
46	Field Dependence of XY-Behavior in Frustrated S = 1/2 Square Lattices. , 2014, , .		0
47	Far-infrared optical conductivity of CeCu <sub>2</sub> Si <sub>2</sub> . Journal of Physics Condensed Matter, 2013, 25, 065602.	1.8	8
48	Structure and magnetism of Cr <sub>2</sub> O <sub>3</sub> . Physical Review B, 2013, 87, .	3.2	15
49	Spin fluctuations with two-dimensional XY behavior in a frustrated S=12 square-lattice ferromagnet. Physical Review B, 2013, 87, .	3.2	18
50	Anisotropic optical conductivity of the putative Kondo insulator CeRu <sub>4</sub> Sn <sub>6</sub> . Physical Review B, 2013, 87, .	3.2	27
51	Electron spin resonance of the Yb <sup>4f</sup> moment in Yb(Rh <sub>1-x</sub> Fe <sub>x</sub> ) <sub>2</sub> Si <sub>2</sub> . Physica Status Solidi (B): Basic Research, 2013, 250, 495-497.	1.5	2
52	Microwave spectroscopy on heavy $\tilde{\nu}$ -fermion systems: Probing the dynamics of charges and magnetic moments. Physica Status Solidi (B): Basic Research, 2013, 250, 439-449.	1.5	41
53	Paramagnetic Resonance in the Cubic Helimagnet $\mu\text{-FeGe}$ . Journal of Physics: Conference Series, 2012, 391, 012105.	0.4	1
54	Field dependence of the Eu <sup>2+</sup> spin relaxation in $\text{EuFe}_2\tilde{\nu}\text{xCoxAs}_2$ . New Journal of Physics, 2012, 14, 063005.	2.9	6

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55	Kondo lattice with heavy fermions: peculiarities of spin kinetics. Journal of Physics Condensed Matter, 2012, 24, 365601.	1.8	3
56	Spin dynamics of S-state ions in the filled skutterudites $\text{La}_{1-x}\text{R}_x\text{Pt}_4\text{Ge}_{12}$ (R=Gd, Eu). Physical Review B, 2012, 85, .	3.2	4
57	Optical Study of Archetypical Valence-Fluctuating Eu Systems. Physical Review Letters, 2012, 109, 247207.	7.8	27
58	Hidden magnetic order in CuNCN. Physical Review B, 2012, 85, .	3.2	10
59	Electron spin resonance of the Yb 4f moment in $\text{Yb}(\text{Rh}_{1-x}\text{Co}_x)_2\text{Si}_2$ . Physical Review B, 2012, 85, .	3.2	16
60	Ferromagnetism and superconductivity in CeFeAs $\frac{1}{x} \hat{a}^x$		

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73	Anisotropic electron spin resonance of $\text{YbR}_2\text{Si}_2$ . Journal of Physics Condensed Matter, 2010, 22, 135602. Strong electron correlations in $\text{FeSb}$	1.8	14
74	An optical investigation and comparison with $\text{RuSb}$	3.2	26
75	Evolution of the Kondo State of $\text{YbRh}_2\text{Si}_2$ by High-Field ESR. Physical Review Letters, 2009, 102, 076405.	7.8	73
76	Why could electron spin resonance be observed in a heavy fermion Kondo lattice?. European Physical Journal B, 2009, 72, 485-489.	1.5	29
77	High-field ESR study of the Kondo lattice system $\text{YbRh}_2\text{Si}_2$ . Journal of Physics: Conference Series, 2009, 150, 042085.	0.4	0
78	Optical properties of $\text{YbRh}_2\text{Si}_2$ and $\text{YbR}_2\text{Si}_2$ : A comparison. Physica B: Condensed Matter, 2008, 403, 775-777.	2.7	5
79	Magnetic susceptibility of $\text{YbRh}_2\text{Si}_2$ and $\text{YbR}_2\text{Si}_2$ on the basis of a localized 4f electron approach. Journal of Physics Condensed Matter, 2008, 20, 455208.	1.8	21
80	Relevance of Ferromagnetic Correlations for the Electron Spin Resonance in Kondo Lattice Systems. Physical Review Letters, 2008, 100, 066401.	7.8	73
81	Electron spin resonance of $\text{YbR}_2\text{Si}_2$ below the Kondo temperature. Journal of Physics Condensed Matter, 2007, 19, 016211.	1.8	32
82	Spin dynamics of $\text{YbRh}_2\text{Si}_2$ observed by electron spin resonance. Journal of Physics Condensed Matter, 2007, 19, 116204.	1.8	17
83	On the local and itinerant properties of the ESR in $\text{YbRh}_2\text{Si}_2$ . Science and Technology of Advanced Materials, 2007, 8, 389-392.	6.1	21
84	Electron spin resonance in $\text{YbRh}_2\text{Si}_2$ : The role of the residual linewidth. Physica C: Superconductivity and Its Applications, 2007, 460-462, 686-687.	1.2	14
85	Far-infrared optical investigation of the heavy-fermion semiconductor. Journal of Magnetism and Magnetic Materials, 2007, 310, 434-436.	2.3	3
86	Optical observation of non-Fermi-liquid behavior in the heavy fermion state of $\text{YbRh}_2\text{Si}_2$ . Physical Review B, 2006, 74, .	3.2	31
87	Optical Pseudogap from Iron States in Filled Skutterudites $\text{AFe}_4\text{Sb}_{12}$ (A=Yb,Ca,Ba). Physical Review Letters, 2006, 96, 037406.	7.8	23
88	Investigation of free radicals induced by light ions in CR-39 using ESR spectroscopy. Radiation Measurements, 2005, 40, 218-223.	1.4	6
89	Kondo ion electron spin resonance in. Physica B: Condensed Matter, 2005, 359-361, 17-19.	2.7	9
90	Electron spin resonance of $\text{Eu}^{2+}$ in the Eu doped clathrate $\text{Ba}_6\text{Ge}_{25}$ . European Physical Journal B, 2005, 46, 201-205.	1.5	5

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91	Optical investigations of the clathrate $\text{Eu}_8\text{Ga}_{16}\text{Ge}_{30}$ . European Physical Journal B, 2005, 46, 363-366.	1.5	6
92	Influence of cage distortions on the electronic structure and optical properties of $\text{Ba}_6\text{Ge}_{25}$ . Physical Review B, 2005, 72, .	3.2	10
93	Optical conductivity of a non-Fermi-liquid material $\text{YbRh}_2\text{Si}_2$ . Journal of Magnetism and Magnetic Materials, 2004, 272-276, 36-37.	2.3	5
94	Electron spin resonance of the Kondo ion in $\text{YbRh}_2\text{Si}_2$ . Journal of Magnetism and Magnetic Materials, 2004, 272-276, 42-43.	2.3	4
95	Electron spin resonance of the low-dimensional spin-system $\text{Sr}_2\text{V}_3\text{O}_9$ . Journal of Magnetism and Magnetic Materials, 2004, 272-276, 960-961.	2.3	5
96	ESR study of the anisotropic exchange in the quasi-one-dimensional antiferromagnet $\text{Sr}_2\text{V}_3\text{O}_9$ . Physical Review B, 2003, 68, .	3.2	34
97	Electron paramagnetic resonance of $\text{Yb}^{3+}$ ions in a concentrated $\text{YbRh}_2\text{Si}_2$ compound with heavy fermions. JETP Letters, 2003, 77, 526-529.	1.4	18
98	$\text{Sr}_2\text{V}_3\text{O}_9$ and $\text{Ba}_2\text{V}_3\text{O}_9$ : Quasi-one-dimensional spin-systems with an anomalous low temperature susceptibility. Physical Review B, 2003, 67, .	3.2	45
99	Low Temperature Electron Spin Resonance of the Kondo Ion in a Heavy Fermion Metal: $\text{YbRh}_2\text{Si}_2$ . Physical Review Letters, 2003, 91, 156401.	7.8	140
100	Quasi-one-dimensional spin chains in $\text{CuSiO}_3$ : an EPR study. Applied Magnetic Resonance, 2002, 23, 75-79.	1.2	10
101	Unconventional superconductivity in $\text{UBe}_{13}$ probed by uniaxial stress. Physica B: Condensed Matter, 2002, 312-313, 97-99.	2.7	4
102	Magnetic, electronic, dielectric and optical properties of $\text{Pr}(\text{Ca:Sr})\text{MnO}_3$ . European Physical Journal B, 2001, 20, 7-17.	1.5	51
103	Magnetic order in $\text{La}_{1.9}\text{Sr}_{0.1}\text{CuO}_4$ from two-magnon Raman scattering. Physical Review B, 2000, 61, 7130-7134.	3.2	2
104	Fröhlich-interaction induced one-phonon Raman scattering in $\text{La}_2\text{CuO}_4$ using an infrared laser. Solid State Communications, 1999, 112, 315-318.	1.9	6
105	Intrinsic Electron Paramagnetic Resonance in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ : Manifestation of Three Spin Polarons. Journal of Superconductivity and Novel Magnetism, 1999, 12, 57-59.	0.5	1
106	Intrinsic EPR in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ : Manifestation of Three-Spin Polarons. Physical Review Letters, 1997, 79, 4274-4277.	7.8	77
107	Spin dynamics in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ probed by electron paramagnetic resonance. Physica B: Condensed Matter, 1997, 230-232, 841-843.	2.7	3
108	EPR study of the dynamic spin susceptibility in heavily doped $\text{YBa}_2\text{Cu}_3\text{O}_{6+\delta}$ . Physica B: Condensed Matter, 1995, 206-207, 742-745.	2.7	2

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109	EPR study of the dynamic spin susceptibility in heavily doped $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$ . Physical Review B, 1995, 51, 9199-9207.	3.2	30
110	Cu-EPR in $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$ single crystals. European Physical Journal B, 1994, 93, 407-409.	1.5	5
111	Magnetic Anisotropy in $\text{YbAlO}_3$ Studied by Electron Spin Resonance. Applied Magnetic Resonance, 0, , .	1.2	0