

Matthias Opel

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102
papers

4,283
citations

35
h-index

64
g-index

113
ext. papers

4,767
ext. citations

3.8
avg, IF

4.97
L-index

#	Paper	IF	Citations
102	Spray-Deposited Anisotropic Ferromagnetic Hybrid Polymer Films of PS-PMMA and Strontium Hexaferrite Magnetic Nanoplatelets. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 1592-1602	9.5	4
101	Quantifying the spin mixing conductance of EuO/W heterostructures by spin Hall magnetoresistance experiments. <i>Applied Physics Letters</i> , 2021 , 118, 192401	3.4	4
100	Controlling Domain-Wall Nucleation in Ta/Co-Fe-B/MgO Nanomagnets via Local Ga ⁺ Ion Irradiation. <i>Physical Review Applied</i> , 2021 , 16,	4.3	3
99	Observation of Antiferromagnetic Magnon Pseudospin Dynamics and the Hanle Effect. <i>Physical Review Letters</i> , 2020 , 125, 247204	7.4	17
98	Surface distortion of Fe dot-decorated TiO nanotubular templates using time-of-flight grazing incidence small angle scattering. <i>Scientific Reports</i> , 2020 , 10, 4038	4.9	2
97	Spin Hall magnetoresistance in antiferromagnetic insulators. <i>Journal of Applied Physics</i> , 2020 , 127, 243902	2.5	10
96	Self-Assembly of Large Magnetic Nanoparticles in Ultrahigh Molecular Weight Linear Diblock Copolymer Films. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 7557-7564	9.5	6
95	Large Spin Hall Magnetoresistance in Antiferromagnetic He ₂ O ₃ /Pt Heterostructures. <i>Physical Review Applied</i> , 2020 , 13,	4.3	20
94	Static magnetic proximity effects and spin Hall magnetoresistance in Pt/Y ₃ Fe ₅ O ₁₂ and inverted Y ₃ Fe ₅ O ₁₂ /Pt bilayers. <i>Physical Review B</i> , 2020 , 102,	3.3	5
93	Effect of interfacial oxidation layer in spin pumping experiments on Ni ₈₀ Fe ₂₀ /SrIrO ₃ heterostructures. <i>Journal of Applied Physics</i> , 2020 , 128, 083903	2.5	4
92	Improving the modelling of susceptibility-induced spatial distortions in MRI-guided extra-cranial radiotherapy. <i>Physics in Medicine and Biology</i> , 2019 , 64, 205006	3.8	3
91	Role of interface quality for the spin Hall magnetoresistance in nickel ferrite thin films with bulk-like magnetic properties. <i>Applied Physics Letters</i> , 2019 , 115, 092403	3.4	8
90	Printed Thin Diblock Copolymer Films with Dense Magnetic Nanostructure. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 21935-21945	9.5	7
89	Spray-Coating Magnetic Thin Hybrid Films of PS-b-PNIPAM and Magnetite Nanoparticles. <i>Advanced Functional Materials</i> , 2019 , 29, 1808427	15.6	11
88	Spin Hall magnetoresistance in antiferromagnet/heavy-metal heterostructures. <i>Physical Review B</i> , 2018 , 97,	3.3	85
87	Phonon anomalies in FeS. <i>Physical Review B</i> , 2018 , 97,	3.3	13
86	Printed Thin Magnetic Films Based on Diblock Copolymer and Magnetic Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 2982-2991	9.5	17

85	Magnetic excitations and amplitude fluctuations in insulating cuprates. <i>Physical Review B</i> , 2018 , 97,	3.3	8
84	Structural and magnetic properties of cobalt iron disulfide (CoFeS) nanocrystals. <i>Scientific Reports</i> , 2018 , 8, 4835	4.9	12
83	Magnetic nanoparticle-containing soft-hard diblock copolymer films with high order. <i>Nanoscale</i> , 2018 , 10, 11930-11941	7.7	9
82	Pure spin current transport in gallium doped zinc oxide. <i>Applied Physics Letters</i> , 2017 , 110, 052403	3.4	2
81	Production and characterization of long-term stable superparamagnetic iron oxide-shell silica-core nanocomposites. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 442, 497-503	2.8	10
80	Spin Hall magnetoresistance in a canted ferrimagnet. <i>Physical Review B</i> , 2016 , 94,	3.3	55
79	Lamellar Diblock Copolymer Films with Embedded Maghemite Nanoparticles. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500712	4.6	7
78	Untangling the contributions of cerium and iron to the magnetism of Ce-doped yttrium iron garnet. <i>Applied Physics Letters</i> , 2016 , 108, 102407	3.4	7
77	Arrangement of Maghemite Nanoparticles via Wet Chemical Self-Assembly in PS-b-PNIPAM Diblock Copolymer Films. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 13080-91	9.5	25
76	Anomalous Hall effect in YIG Pt bilayers. <i>Applied Physics Letters</i> , 2015 , 106, 132402	3.4	53
75	Zinc oxide from dilute magnetic doping to spin transport. <i>Physica Status Solidi (B): Basic Research</i> , 2014 , 251, 1700-1709	1.3	26
74	Self-assembly of diblock copolymer-maghemite nanoparticle hybrid thin films. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 18152-62	9.5	17
73	Nano- and microstructures of magnetic field-guided maghemite nanoparticles in diblock copolymer films. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 5244-54	9.5	29
72	Laser molecular beam epitaxy of ZnO thin films and heterostructures. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 034002	3	46
71	Unambiguous determination of spin dephasing times in ZnO by time-resolved magneto-optical pump-probe experiments. <i>Physica Status Solidi (B): Basic Research</i> , 2014 , 251, 1861-1871	1.3	11
70	Temperature dependent spin transport properties of platinum inferred from spin Hall magnetoresistance measurements. <i>Applied Physics Letters</i> , 2014 , 104, 242411	3.4	69
69	Converse magnetoelectric effects in Fe ₃ O ₄ /BaTiO ₃ multiferroic hybrids. <i>Physical Review B</i> , 2013 , 88,	3.3	38
68	Separation of semiconducting and ferromagnetic FeSi ₂ -nanoparticles by magnetic filtering. <i>Journal of Applied Physics</i> , 2013 , 114, 134308	2.5	5

67 Nanosession: Multiferroic Thin Films and Heterostructures **2013**, 323-334

66	Quantitative study of the spin Hall magnetoresistance in ferromagnetic insulator/normal metal hybrids. <i>Physical Review B</i> , 2013 , 87,	3-3	346
65	Spin Hall magnetoresistance induced by a nonequilibrium proximity effect. <i>Physical Review Letters</i> , 2013 , 110, 206601	7-4	677
64	Investigation of induced Pt magnetic polarization in Pt/Y ₃ Fe ₅ O ₁₂ bilayers. <i>Applied Physics Letters</i> , 2012 , 101, 262407	3-4	102
63	Giant magnetoelastic effects in BaTiO ₃ -based extrinsic multiferroic hybrids. <i>Physical Review B</i> , 2012 , 86,	3-3	12
62	Structural, magnetic and electric behavior of the new Ba ₂ TiMoO ₆ material. <i>Physica B: Condensed Matter</i> , 2012 , 407, 3074-3077	2-8	1
61	Spin transport and spin dephasing in zinc oxide. <i>Applied Physics Letters</i> , 2012 , 101, 082404	3-4	24
60	Spintronic oxides grown by laser-MBE. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 033001	3	97
59	Local charge and spin currents in magnetothermal landscapes. <i>Physical Review Letters</i> , 2012 , 108, 106602.	7-4	197
58	Novel multifunctional materials based on oxide thin films and artificial heteroepitaxial multilayers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 232-251	1-6	41
57	Superconductivity of Calcium C60 Intercalation Compound Synthesized by Shock-Wave Pressure. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2010 , 18, 376-380	1-8	2
56	Magnetic interference patterns in 0 π superconductor/insulator/ferromagnet/superconductor Josephson junctions: Effects of asymmetry between 0 and π regions. <i>Physical Review B</i> , 2010 , 81,	3-3	41
55	Electric field controlled manipulation of the magnetization in Ni/BaTiO ₃ hybrid structures. <i>Applied Physics Letters</i> , 2010 , 96, 142509	3-4	147
54	Advanced spectroscopic synchrotron techniques to unravel the intrinsic properties of dilute magnetic oxides: the case of Co:ZnO. <i>New Journal of Physics</i> , 2010 , 12, 013020	2-9	82
53	Epitaxial growth and magnetic properties of Sr ₂ CrReO ₆ thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2009 , 321, 2001-2004	2-8	17
52	Giant magnetic anisotropy changes in Sr ₂ CrReO ₆ thin films on BaTiO ₃ . <i>Applied Physics Letters</i> , 2009 , 95, 062508	3-4	28
51	Epitaxial Zn _x Fe _{3-x} O ₄ thin films: A spintronic material with tunable electrical and magnetic properties. <i>Physical Review B</i> , 2009 , 79,	3-3	122
50	Voltage controlled inversion of magnetic anisotropy in a ferromagnetic thin film at room temperature. <i>New Journal of Physics</i> , 2009 , 11, 013021	2-9	132

49	In situ manipulation of magnetic anisotropy in magnetite thin films. <i>Physical Review B</i> , 2008 , 77,	3.3	93
48	All oxide ferromagnet/semiconductor epitaxial heterostructures. <i>Applied Physics Letters</i> , 2008 , 93, 1625104	3.4	28
47	Ga _{1-x} MnxAs/piezoelectric actuator hybrids: A model system for magnetoelastic magnetization manipulation. <i>Physical Review B</i> , 2008 , 78,	3.3	68
46	Anomalous Hall effect in magnetite: Universal scaling relation between Hall and longitudinal conductivity in low-conductivity ferromagnets. <i>Physical Review B</i> , 2008 , 78,	3.3	46
45	Suppression of hole-mediated ferromagnetism in Ga _{1-x} MnxP by hydrogen. <i>Journal of Applied Physics</i> , 2008 , 104, 013908	2.5	8
44	Superconductivity of C60 fullerite intercalated with Ca by means of shock-wave pressure technique. <i>Chemical Physics Letters</i> , 2008 , 457, 74-77	2.5	12
43	Nanosized superparamagnetic precipitates in cobalt-doped ZnO. <i>European Physical Journal B</i> , 2008 , 63, 437-444	1.2	55
42	Piezo-voltage control of magnetization orientation in a ferromagnetic semiconductor. <i>Physica Status Solidi - Rapid Research Letters</i> , 2008 , 2, 96-98	2.5	35
41	Electrically detected ferromagnetic resonance. <i>Applied Physics Letters</i> , 2007 , 90, 162507	3.4	26
40	Magnetocrystalline anisotropy and magnetization reversal in Ga _{1-x} MnxP synthesized by ion implantation and pulsed-laser melting. <i>Physical Review B</i> , 2007 , 75,	3.3	17
39	Multiferroic materials based on artificial thin film heterostructures. <i>Philosophical Magazine Letters</i> , 2007 , 87, 141-154	1	23
38	Effect of substrate on the electrical transport property of Ba ₂ FeNbO ₆ double perovskite thin films. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 1430-1434	3	5
37	Influence of disorder on the low and high temperature magnetization and magnetoresistance in Pr _{0.6} R _{0.1} Sr _{0.3} MnO ₃ (R = Tb, Y, Ho and Er) manganite. <i>Journal of Alloys and Compounds</i> , 2007 , 443, 7-10	5.7	4
36	Spin-glass-like behavior of Ge:Mn. <i>Physical Review B</i> , 2006 , 74,	3.3	74
35	Magnetic and structural properties of GexMn _{1-x} films: Precipitation of intermetallic nanomagnets. <i>Physical Review B</i> , 2006 , 74,	3.3	77
34	Ferromagnetism in epitaxial Zn _{0.95} Co _{0.05} O films grown on ZnO and Al ₂ O ₃ . <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 3581-3596	1.6	19
33	Ferroelectric and magnetic properties of Ho ₂ CuTiO ₆ double perovskite. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 303, e332-e334	2.8	15
32	Magnetic moments of W 5d in Ca ₂ CrWO ₆ and Sr ₂ CrWO ₆ double perovskites. <i>Physical Review B</i> , 2005 , 72,	3.3	31

31	Epitaxial growth of electron doped double perovskites $\text{La}_{1-x}\text{Sr}_x\text{CrWO}_6$ with $A=\text{Sr}$ and Ca . <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 290-291, 1154-1157	2.8	10
30	Ferromagnetism in Mn-doped ZnO due to impurity bands. <i>Superlattices and Microstructures</i> , 2005 , 37, 327-332	2.8	20
29	Low Temperature Properties and Superconductivity of LuB_{12} . <i>Journal of Low Temperature Physics</i> , 2005 , 140, 339-353	1.3	35
28	A-site dependent percolative thermopower and Griffiths phase in $\text{Pr}(\text{0.7}\square)\text{Ho}_x\text{Sr}_{0.3}\text{MnO}_3$ ($x=0.0, 0.04, 0.08, \text{ and } 0.1$). <i>Journal of Applied Physics</i> , 2005 , 97, 10H713	2.5	4
27	X-ray magnetic circular dichroism study of Re 5d magnetism in $\text{Sr}_2\text{CrReO}_6$. <i>Applied Physics Letters</i> , 2005 , 87, 202503	3.4	52
26	Hydrogen control of ferromagnetism in a dilute magnetic semiconductor. <i>Physical Review Letters</i> , 2004 , 92, 227202	7.4	69
25	Hall effect, magnetization, and conductivity of Fe_3O_4 epitaxial thin films. <i>Applied Physics Letters</i> , 2004 , 85, 4980-4982	3.4	69
24	Study of magnetic properties of $\text{A}_2\text{B}'\text{NbO}_6$ ($A=\text{Ba}, \text{Sr}, \text{BaSr}$; and $\text{B}'=\text{Fe}$ and Mn) double perovskites. <i>Journal of Applied Physics</i> , 2004 , 95, 7528-7530	2.5	47
23	A-site-disorder-dependent percolative transport and Griffiths phase in doped manganites. <i>Physical Review B</i> , 2004 , 70,	3.3	56
22	Magnetoresistance and Magnetic Properties of the Double Perovskites. <i>Acta Physica Polonica A</i> , 2004 , 105, 7-26	0.6	13
21	Orbital order and anisotropic transport properties in doped manganites induced by epitaxial coherency strain. <i>Journal of Applied Physics</i> , 2003 , 93, 7373-7375	2.5	20
20	Epitaxial growth and transport properties of Sr_2CrWO_6 thin films. <i>Journal of Applied Physics</i> , 2003 , 93, 6853-6855	2.5	26
19	Epitaxy of Fe_3O_4 on $\text{Si}(001)$ by pulsed laser deposition using a TiN/MgO buffer layer. <i>Journal of Applied Physics</i> , 2003 , 94, 1857-1863	2.5	32
18	Doping dependence of the electronic Raman spectra in cuprates. <i>Journal of Physics and Chemistry of Solids</i> , 2002 , 63, 2345-2348	3.9	35
17	Observation of an unconventional metal-insulator transition in overdoped CuO_2 compounds. <i>Physical Review Letters</i> , 2002 , 89, 107003	7.4	54
16	A light-scattering study of dynamical carrier properties in cuprate systems. <i>Ferroelectrics</i> , 2001 , 249, 155-164	0.6	
15	Carrier relaxation, pseudogap, and superconducting gap in high- T_c cuprates: A Raman scattering study. <i>Physical Review B</i> , 2000 , 61, 9752-9774	3.3	110
14	Physical origin of the buckling in CuO_2 : Electron-phonon coupling and Raman spectra. <i>Physical Review B</i> , 1999 , 60, 9836-9844	3.3	47

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|----|---|------|-----|
| 13 | Pseudogap and Superconducting Gap in YBa ₂ Cu ₃ O _{6+x} : A Raman Study. <i>Journal of Low Temperature Physics</i> , 1999 , 117, 347-351 | 1.3 | 7 |
| 12 | Raman Spectroscopy in YBa ₂ Cu ₃ O _{6+x} and Bi ₂ Sr ₂ (Ca _x Y _{1-x})Cu ₂ O ₈ + δ Pseudogap and Superconducting Gap. <i>Physica Status Solidi (B): Basic Research</i> , 1999 , 215, 471-476 | 1.3 | 3 |
| 11 | Pseudogap and superconducting gap in the electronic Raman spectra of underdoped cuprates. <i>Journal of Physics and Chemistry of Solids</i> , 1998 , 59, 1942-1946 | 3.9 | 10 |
| 10 | wave superconductivity: Analysis of the electronic Raman data of and other cuprates. <i>European Physical Journal B</i> , 1998 , 5, 495-503 | 1.2 | 23 |
| 9 | Enhanced electron-phonon coupling and its irrelevance to high T superconductivity. <i>Solid State Communications</i> , 1998 , 108, 407-411 | 1.6 | 21 |
| 8 | Pseudogap and Superconducting Gap in the Electronic Raman Spectra of Underdoped Cuprates. <i>Physical Review Letters</i> , 1997 , 78, 4837-4840 | 7.4 | 124 |
| 7 | Electronic Raman scattering in copper-oxide superconductors and related compounds 1996 , | | 15 |
| 6 | A study of critical and thermal pair breaking in differently doped CuO superconductors by electronic Raman scattering. <i>European Physical Journal D</i> , 1996 , 46, 1107-1108 | | |
| 5 | Electronic Raman scattering in CuO ₂ superconductors. <i>Journal of Low Temperature Physics</i> , 1996 , 105, 733-742 | 1.3 | 22 |
| 4 | Study of k-dependent electronic properties in cuprate superconductors using Raman spectroscopy. <i>Journal of Physics and Chemistry of Solids</i> , 1995 , 56, 1841-1842 | 3.9 | 3 |
| 3 | TEM studies of cobalt-doped zinc oxide films 623-624 | | |
| 2 | In Situ Study of FePt Nanoparticles-Induced Morphology Development during Printing of Magnetic Hybrid Diblock Copolymer Films. <i>Advanced Functional Materials</i> , 2107667 | 15.6 | 0 |
| 1 | Nanosession: Spin Dynamics 291-300 | | |