

# Marta Z Cieplak

## List of Publications by Year in descending order

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79  
papers

3,519  
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218677

26  
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80  
docs citations

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1944  
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#	ARTICLE	IF	CITATIONS
1	Universal Correlations between $T_c$ and $n m^*$ (Carrier Density over Effective Mass) in High- $T_c$ Cuprate Superconductors. <i>Physical Review Letters</i> , 1989, 62, 2317-2320.	7.8	1,174
2	High-temperature superconductivity in tetragonal perovskite structures: Is oxygen-vacancy order important?. <i>Physical Review Letters</i> , 1988, 60, 1446-1449.	7.8	324
3	Magnetic pair-breaking effects: Moment formation and critical doping level in superconducting $\text{La}_{1.85}\text{Sr}_{0.15}\text{Cu}_{1-x}\text{A}_x\text{O}_4$ systems (A=Fe,Co,Ni,Zn,Ga,Al). <i>Physical Review B</i> , 1990, 42, 8752-8755.	3.2	310
4	Significance of plane versus chain sites in high-temperature oxide superconductors. <i>Nature</i> , 1988, 332, 238-240.	27.8	210
5	Correlation between superconductivity and normal-state properties in the $\text{La}_{1.85}\text{Sr}_{0.15}(\text{Cu}_{1-x}\text{Zn}_x)\text{O}_4$ system. <i>Physical Review B</i> , 1989, 39, 315-321.	3.2	117
6	Incorporation of gold into $\text{YBa}_2\text{Cu}_3\text{O}_7$ : Structure and $T_c$ enhancement. <i>Physical Review B</i> , 1990, 42, 6200-6208.	3.2	97
7	Metal-insulator transition in $\text{La}_{1.85}\text{Sr}_{0.15}\text{CuO}_4$ with various substitutions for Cu. <i>Physical Review B</i> , 1992, 46, 5536-5547.	3.2	66
8	Thickness dependence of $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ films. <i>Applied Physics Letters</i> , 1994, 65, 3383-3385.	3.3	64
9	Universal Hall effect in $\text{La}_{1.85}\text{Sr}_{0.15}\text{Cu}_{1-x}\text{A}_x\text{O}_4$ systems (A=Fe,Co,Ni,Zn,Ga). <i>Physical Review B</i> , 1992, 46, 8687-8690.	3.2	62
10	Superconducting and normal-state properties of $\text{La}_{1.85}\text{Sr}_{0.15}\text{Cu}_{1-x}\text{G}_x\text{BO}_4$ . <i>Physical Review B</i> , 1989, 39, 4222-4230.	3.2	54
11	Origin of the $T_c$ depression and the role of charge transfer and dimensionality in ultrathin $\text{YBa}_2\text{Cu}_3\text{O}_7$ . <i>Physical Review B</i> , 1994, 50, 12876-12886.	3.2	54
12	Growth and properties of $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ films. <i>Applied Physics Letters</i> , 1994, 65, 2481-2483.	3.3	50
13	Percolative Superconductivity in $\text{Mg}_{1-x}\text{B}_2$ . <i>Physical Review Letters</i> , 2002, 89, 167003.	7.8	50
14	Static vacancies in antiferromagnetic $\text{La}_2\text{CuO}_4$ and superconducting $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ . <i>Physical Review B</i> , 1990, 42, 240-243.	3.2	47
15	Effect of substitutional impurities on the superconducting gap of $\text{YBa}_2\text{Cu}_3\text{O}_7$ . <i>Solid State Communications</i> , 1991, 78, 727-733.	1.9	47
16	Systematic study of $(\text{La}_{1-x}\text{Gd}_x)_{1.85}\text{Sr}_{0.15}\text{CuO}_4$ ( $0 \leq x \leq 1$ ): Structure, superconductivity, resistivity, and magnetic properties. <i>Physical Review B</i> , 1989, 40, 4538-4548.	3.2	45
17	Spin-up problem in superfluid $\text{He}_4$ . <i>Physical Review B</i> , 1985, 32, 171-177.	3.2	43
18	Effect of noble metal buffer layers on superconducting $\text{YBa}_2\text{Cu}_3\text{O}_7$ thin films. <i>Applied Physics Letters</i> , 1987, 51, 2155-2157.	3.3	42

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19	High-quality MgB <sub>2</sub> films on boron crystals with onset T <sub>c</sub> of 41.7 K. Applied Physics Letters, 2001, 79, 4180-4182.	3.3	37
20	Magnetic-Field Induced Superconductor-Insulator Transition in the La <sub>2-x</sub> Sr <sub>x</sub> CuO <sub>4</sub> System. Physical Review Letters, 1996, 77, 3033-3036.	7.8	36
21	Superconducting Au/YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> composites. Applied Physics Letters, 1988, 52, 927-929.	3.3	34
22	Asymmetrical effects of copper-site holes versus oxygen-site holes in La-Sr-Cu-O. Physical Review B, 1991, 43, 1245-1248.	3.2	32
23	Emergence of superconductivity in a bi-sr-cu-o system. Physical Review B, 1988, 38, 11824-11827.	3.2	30
24	Spin dynamics in the La <sub>1.85</sub> Sr <sub>0.15</sub> Cu <sub>1-x</sub> Fe <sub>x</sub> O <sub>4</sub> system probed by ESR. Physical Review B, 1993, 48, 4019-4029.	3.2	28
25	Metallic Nonsuperconducting Phase and D-Wave Superconductivity in Zn-Substituted La <sub>1.85</sub> Sr <sub>0.15</sub> CuO <sub>4</sub> . Physical Review Letters, 2000, 84, 155-158.	7.8	28
26	Unexpected effects of gold on the structure, superconductivity, and normal state of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> . Applied Physics Letters, 1990, 57, 934-936.	3.3	26
27	Origin of pinning enhancement in a ferromagnet-superconductor bilayer. Journal of Applied Physics, 2005, 97, 026105.	2.5	24
28	Magnetotransport in the normal state of La <sub>1.85</sub> Sr <sub>0.15</sub> Cu <sub>1-y</sub> Zn <sub>y</sub> O <sub>4</sub> films. Physical Review B, 2002, 66, .	3.2	22
29	Optical Charge Transfer Spectra and EPR Spectra of Cr <sup>2+</sup> (d <sup>4</sup> ) and Cr <sup>1+</sup> (d <sup>5</sup> ) in CdTe. Physica Status Solidi (B): Basic Research, 1975, 70, 323-331.	1.5	21
30	The energy structure of HgMnSe in a strong magnetic field. Journal of Physics C: Solid State Physics, 1980, 13, 5383-5391.	1.5	20
31	Magnetic penetration depth in superconducting La <sub>2-x</sub> Sr <sub>x</sub> CuO <sub>4</sub> films. Physical Review B, 1999, 59, 641-646.	3.2	18
32	Superconductivity and magnetism in transition element substituted YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> compounds. Journal of Applied Physics, 1988, 63, 4196-4198.	2.5	17
33	Resistive and structural properties of La <sub>1.85</sub> Sr <sub>0.15</sub> Cu <sub>1-y</sub> Zn <sub>y</sub> O <sub>4</sub> films. Applied Physics Letters, 1998, 73, 2823-2825.	3.3	17
34	Orbital magnetoresistance in the La <sub>2-x</sub> Sr <sub>x</sub> CuO <sub>4</sub> system. Physical Review B, 1998, 57, R8083-R8086.	3.2	16
35	Magnetic-Field Induced Localization in the Normal State of Superconducting La <sub>2-x</sub> Sr <sub>x</sub> CuO <sub>4</sub> . Physical Review Letters, 1997, 79, 495-498.	7.8	15
36	Tunable phase diagram and vortex pinning in a superconductor-ferromagnet bilayer. Physical Review B, 2010, 82, .	3.2	15

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37	Tuning vortex confinement by magnetic domains in a superconductor/ferromagnet bilayer. <i>Physical Review B</i> , 2013, 87, .	3.2	14
38	Exciton binding energy in CdMnTe crystals. <i>Solid State Communications</i> , 1979, 29, 81-83.	1.9	13
39	From submonolayers to bulk in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> . <i>Physica C: Superconductivity and Its Applications</i> , 1993, 209, 31-34.	1.2	13
40	Exciton Ground State in CdMnTe in a Magnetic Field. <i>Physica Status Solidi (B): Basic Research</i> , 1980, 97, 617-629.	1.5	11
41	Localization and Interaction Effects in Strongly Underdoped La <sub>2-x</sub> Sr <sub>x</sub> CuO <sub>4</sub> . <i>Physical Review Letters</i> , 2004, 92, 187003.	7.8	11
42	Use of XPS to clarify the Hall coefficient sign variation in thin niobium layers buried in silicon. <i>Applied Surface Science</i> , 2017, 399, 32-40.	6.1	11
43	Upper critical field and superconductor-metal transition in ultrathin niobium films. <i>Scientific Reports</i> , 2020, 10, 19062.	3.3	11
44	Dynamic spin susceptibility of semimagnetic semiconductors. <i>Physical Review B</i> , 1987, 36, 620-629.	3.2	10
45	The enhancement of vortex pinning in ferromagnet/superconductor bilayers. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005, 2, 1650-1655.	0.8	10
46	Enhancement of vortex pinning in superconductor/ferromagnet bilayers via angled demagnetization. <i>Physical Review B</i> , 2011, 84, .	3.2	10
47	Negative Hall coefficient of ultrathin niobium in Si/Nb/Si trilayers. <i>Physical Review B</i> , 2014, 90, .	3.2	10
48	Influence of magnetic domain landscape on the flux dynamics in superconductor/ferromagnet bilayers. <i>Physical Review B</i> , 2016, 93, .	3.2	10
49	Influence of boundary conditions on random unfrustrated magnetic systems. <i>Physical Review B</i> , 1982, 26, 2482-2489.	3.2	9
50	Transition-metal substitutions in iron chalcogenides. <i>Physical Review B</i> , 2015, 91, .	3.2	7
51	Transition metal doping of FeSeTe: what can we learn from transport properties. <i>Philosophical Magazine</i> , 2015, 95, 480-492.	1.6	7
52	Numerical studies of the isotropic Heisenberg model for random ferromagnets and spin glasses. <i>Journal of Physics C: Solid State Physics</i> , 1984, 17, 2933-2942.	1.5	6
53	Scaling stiffness and correlations in the spin-glass-ferromagnet transition: evidence for the mixed phase. <i>Journal of Physics C: Solid State Physics</i> , 1985, 18, 1481-1493.	1.5	6
54	Impurity and strain effects on the magnetotransport of La <sub>1.85</sub> Sr <sub>0.15</sub> Cu <sub>1-y</sub> Zn <sub>y</sub> O <sub>4</sub> films. <i>Physical Review B</i> , 2002, 65, .	3.2	6

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55	The effect of strain on the microstructure and superconductivity of pulsed laser deposited LaSrCuO films. <i>Superconductor Science and Technology</i> , 2006, 19, 564-572.	3.5	6
56	Electron spin resonance studies of the temperature dependence of the ZnS visible photoluminescence. <i>Journal of Applied Physics</i> , 1986, 60, 4259-4261.	2.5	5
57	Faraday rotation in CdMnTe in megagauss fields. <i>Journal of Physics C: Solid State Physics</i> , 1979, 12, L941-L943.	1.5	4
58	Interface effects in YBCO/(Y-Pr)BCO multilayers, and the dimensionality of high-T <sub>c</sub> superconductivity. <i>Journal of Superconductivity and Novel Magnetism</i> , 1994, 7, 201-204.	0.5	4
59	Continuous flow cryostats for measurements in pulsed magnetic fields. <i>Cryogenics</i> , 1978, 18, 56.	1.7	3
60	Coordination number of percolating clusters. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1984, 104, 290-292.	2.1	3
61	EPR study of Fe-doped La <sub>1.85</sub> Sr <sub>0.15</sub> CuO <sub>4</sub> . <i>Journal of the Less Common Metals</i> , 1990, 164-165, 870-877.	0.8	3
62	The metal-insulator transition in La <sub>1.85</sub> Sr <sub>0.15</sub> CuO <sub>4</sub> with various substitutions for Cu. <i>Superconductor Science and Technology</i> , 1991, 4, S67-S69.	3.5	3
63	Strain Relaxation in Thin Films of La <sub>1.85</sub> Sr <sub>0.15</sub> CuO <sub>4</sub> Grown by Pulsed Laser Deposition. <i>Acta Physica Polonica A</i> , 2007, 111, 185-188.	0.5	3
64	Dynamics of diluted antiferromagnetic Ising spin systems on the fcc lattice. <i>Physical Review B</i> , 1989, 39, 6757-6764.	3.2	2
65	The influence of Au and Pr on the superconductivity-related gap in RBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> . <i>Physica C: Superconductivity and Its Applications</i> , 1991, 185-189, 745-746.	1.2	2
66	Superconductivity and the metal-insulator transition in La <sub>1.85</sub> Sr <sub>0.15</sub> CuO <sub>4</sub> . <i>Physica C: Superconductivity and Its Applications</i> , 1991, 185-189, 1233-1234.	1.2	2
67	Absence of weak localization effects in strongly underdoped La <sub>2-x</sub> Sr <sub>x</sub> CuO <sub>4</sub> . <i>Physica C: Superconductivity and Its Applications</i> , 2004, 404, 87-94.	1.2	2
68	Ultrathin Niobium in the Si/Nb/Si Trilayers. <i>Acta Physica Polonica A</i> , 2014, 126, A-140-A-144.	0.5	2
69	Structural properties and magnetoresistance of La <sub>1.952</sub> Sr <sub>0.048</sub> CuO <sub>4</sub> thin films. <i>Journal of Applied Physics</i> , 2020, 127, 073901.	2.5	2
70	Effect of the In-Plane Epitaxial Mismatch between the Substrate and the Film on the Properties of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> Films. <i>Acta Physica Polonica A</i> , 2006, 109, 549-554.	0.5	2
71	Is there an intrinsic difference between bulk YBCO and a single unit-cell layer?. <i>Physica B: Condensed Matter</i> , 1994, 194-196, 2157-2158.	2.7	1
72	Strain and oxygenation of LSCO films. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 235-240, 695-696.	1.2	1

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73	Origin of the T <sub>c</sub> -depression in ultrathin YBCO. , 1994, , .		1
74	Variable range hopping in the spin-glass phase of La <sub>2-x</sub> Sr <sub>x</sub> CuO <sub>4</sub> . Journal of Physics Condensed Matter, 2008, 20, 085207.	1.8	1
75	The superconductor-insulator transition in the LaSrCuO system. , 1996, , 131-150.		0
76	Phase Diagram and Activation Energy for Vortex Pinning in Nb/(Co,Pd) Superconductor-Ferromagnet Bilayer. Acta Physica Polonica A, 2014, 126, A-123-A-127.	0.5	0
77	Effect of electron doping in FeTe <sub>1-y</sub> Se <sub>y</sub> realized by Co and Ni substitution. Superconductor Science and Technology, 2019, 32, 105009.	3.5	0
78	Current-voltage characteristics of strained, highly underdoped La <sub>2-x</sub> Sr <sub>x</sub> CuO <sub>4</sub> thin films. Superconductor Science and Technology, 0, , .	3.5	0
79	Experimental Study of High Temperature Superconductors through Substitution. , 1990, , 189-200.		0