

Jean Juraszek

List of Publications by Year in descending order

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69
papers

1,845
citations

331670

21
h-index

265206

42
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72
all docs

72
docs citations

72
times ranked

2731
citing authors

#	ARTICLE	IF	CITATIONS
1	Local strain-induced ferromagnetism in inhomogeneous Fe-implanted silicon carbide. Solid State Sciences, 2022, 126, 106844.	3.2	1
2	Ordered sphalerite derivative $\text{Cu}_5\text{Sn}_2\text{S}_7$: a degenerate semiconductor with high carrier mobility in the Cu-Sn-S diagram. Journal of Materials Chemistry A, 2021, 9, 10812-10826.	10.3	23
3	Long-Range Cationic Order Collapse Triggered by S/Cl Mixed-Anion Occupancy Yields Enhanced Thermoelectric Properties in $\text{Cu}_5\text{Sn}_2\text{S}_7$. Chemistry of Materials, 2021, 33, 9425-9438.	6.7	11
4	Probing the origins of magnetism in 2 at% Fe-implanted 4H-SiC. Scripta Materialia, 2020, 188, 157-163.	5.2	9
5	The Experimentalist's Guide to the Cycloid, or Noncollinear Antiferromagnetism in Epitaxial BiFeO_3 . Advanced Materials, 2020, 32, e2003711.	21.0	45
6	Promoted crystallisation and cationic ordering in thermoelectric $\text{Cu}_{26}\text{V}_2\text{Sn}_6\text{S}_{32}$ colusite by eccentric vibratory ball milling. Dalton Transactions, 2020, 49, 15828-15836.	3.3	10
7	Origin of the magnetic properties of Fe-implanted 4H-SiC semiconductor. Journal of Applied Physics, 2020, 127, 183901.	2.5	2
8	Non-auxetic/auxetic transitions inducing modifications of the magnetic anisotropy in CoFe_2O_4 thin films. Journal of Alloys and Compounds, 2020, 836, 155425.	5.5	6
9	Structure and magnetic properties of epitaxial CaFe_2O_4 thin films. Npj Quantum Materials, 2020, 5, .	5.2	12
10	Influence of the electronic polymorphism of Ni on the classification and design of high entropy alloys. Journal of Alloys and Compounds, 2020, 824, 153895.	5.5	9
11	Interfacial Strain Gradients Control Nanoscale Domain Morphology in Epitaxial BiFeO_3 Multiferroic Films. Advanced Functional Materials, 2020, 30, 2000343.	14.9	26
12	A scalable synthesis route for multiscale defect engineering in the sustainable thermoelectric quaternary sulfide $\text{Cu}_{26}\text{V}_2\text{Sn}_6\text{S}_{32}$. Acta Materialia, 2020, 195, 229-239.	7.9	22
13	Impact of the iron substitution on the thermoelectric properties of $\text{Co}_{1-x}\text{Fe}_x\text{S}_2$ ($x \in [0, 0.30]$). Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180337.	14	6
14	A magnetic phase diagram for nanoscale epitaxial BiFeO_3 films. Applied Physics Reviews, 2019, 6, .	11.3	19
15	XBi_4S_7 (X = Mn, Fe): New Cost-Efficient Layered n -Type Thermoelectric Sulfides with Ultralow Thermal Conductivity. Advanced Functional Materials, 2019, 29, 1904112.	14.9	24
16	Characterization of nanostructure in low dose Fe-implanted p-type 6H-SiC using atom probe tomography. Journal of Magnetism and Magnetic Materials, 2019, 481, 189-193.	2.3	1
17	Influence of flexoelectricity on the spin cycloid in (110)-oriented BiFeO_3 films. Physical Review Materials, 2019, 3, .	2.4	9
18	6H-SiC-Fe Nanostructures Studied by Atom Probe Tomography. IEEE Magnetics Letters, 2018, 9, 1-3.	1.1	5

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19	Interplay of electronic, structural and magnetic properties as the driving feature of high-entropy CoCrFeNiPd alloys. Journal Physics D: Applied Physics, 2017, 50, 185002.	2.8	16
20	Strain and Magnetic Field Induced Spin-Structure Transitions in Multiferroic BiFeO ₃ . Advanced Materials, 2017, 29, 1602327.	21.0	76
21	Fe implantation effect in the 6H-SiC semiconductor investigated by Mössbauer spectrometry. Journal of Applied Physics, 2017, 122, 083905.	2.5	10
22	Selective isolation and eradication of E. coli associated with urinary tract infections using anti-fimbrial modified magnetic reduced graphene oxide nanoheaters. Journal of Materials Chemistry B, 2017, 5, 8133-8142.	5.8	23
23	Magnetic reduced graphene oxide loaded hydrogels: Highly versatile and efficient adsorbents for dyes and selective Cr(VI) ions removal. Journal of Colloid and Interface Science, 2017, 507, 360-369.	9.4	72
24	Insight into magnetic, ferroelectric and elastic properties of strained BiFeO ₃ thin films through Mössbauer spectroscopy. Applied Physics Letters, 2016, 109, .	3.3	10
25	An Innovative Process Using Only Water and Sodium Chloride for Recovering Rare Earth Elements from Nd-Fe-B Permanent Magnets Found in the Waste of Electrical and Electronic Equipment. ACS Sustainable Chemistry and Engineering, 2016, 4, 6455-6462.	6.7	13
26	Effect of chemical order on the magnetic and electronic properties of epitaxial off-stoichiometry Fe _x Si _{1-x} thin films. Physical Review B, 2015, 91, .	3.2	24
27	Magnetic and Mössbauer characterization of the magnetic properties of single-crystalline sub-micron sized Bi ₂ Fe ₄ O ₉ cubes. Current Applied Physics, 2015, 15, 417-422.	2.4	17
28	Control of ferroelectricity and magnetism in multi-ferroic BiFeO ₃ by epitaxial strain. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20120438.	3.4	32
29	Structural and magnetic properties of (Fe/Mn) exchange-biased multilayers. Physica B: Condensed Matter, 2013, 416, 45-50.	2.7	3
30	A Mössbauer investigation of the formation of the Ni ₃ Fe phase by high energy ball milling and subsequent annealing. Intermetallics, 2013, 35, 128-134.	3.9	2
31	Crafting the magnonic and spintronic response of BiFeO ₃ films by epitaxial strain. Nature Materials, 2013, 12, 641-646.	27.5	311
32	Fe Spin Reorientation across the Metamagnetic Transition in Strained FeRh Thin Films. Physical Review Letters, 2012, 109, 117201.	7.8	103
33	Multiferroic Phase Transition near Room Temperature in BiFeO_3 Films. Physical Review Letters, 2011, 107, 237601.	7.8	88
34	Seed-mediated synthesis, properties and application of Fe^{3+} -Fe ₂ O ₃ @CdSe magnetic quantum dots. Journal of Solid State Chemistry, 2011, 184, 2150-2158.	2.9	12
35	Bridging Multiferroic Phase Transitions by Epitaxial Strain in BiFeO_3 . Physical Review Letters, 2010, 105, 057601.	7.8	147
36	Publisher's Note: Bridging Multiferroic Phase Transitions by Epitaxial Strain in BiFeO ₃ [Phys. Rev. Lett. 105, 057601 (2010)]. Physical Review Letters, 2010, 105, .	7.8	2

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37	A setup combining magneto-optical Kerr effect and conversion electron M \ddot{A} ssbauer spectrometry for analysis of the near-surface magnetic properties of thin films. Review of Scientific Instruments, 2009, 80, 043905.	1.3	21
38	Atom-Probe Tomographic Studies of Thin Films and Multilayers. MRS Bulletin, 2009, 34, 732-737.	3.5	28
39	Structural analysis of a (Pt/Co) ₃ /IrMn multilayer: Investigation of sub-nanometric layers by tomographic atom probe. Journal of Applied Physics, 2009, 105, 084307.	2.5	21
40	Atom probe tomography of swift ion irradiated multilayers. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 912-916.	1.4	3
41	Mecanosynthesis of partially inverted zinc ferrite. Journal of Alloys and Compounds, 2009, 473, 303-307.	5.5	26
42	Surface and bulk magnetic properties of as-quenched FeNbB ribbons. Journal of Magnetism and Magnetic Materials, 2008, 320, 1535-1540.	2.3	23
43	Atomic-scale study of TbCo _{2.5} /Fe multilayers by laser-assisted tomographic atom probe. Journal of Applied Physics, 2007, 102, .	2.5	18
44	Structural investigation of TbCo ₂ /Fe magnetostrictive thin films by tomographic atom probe and M \ddot{A} ssbauer spectrometry. Journal of Magnetism and Magnetic Materials, 2007, 310, 2215-2216.	2.3	6
45	Magnetostrictive properties of Kr-ion irradiated multilayers. Journal of Magnetism and Magnetic Materials, 2007, 310, 2624-2626.	2.3	0
46	Investigation of (Fe/Dy) multilayers by ⁵⁷ Fe M \ddot{A} ssbauer spectrometry. Journal of Magnetism and Magnetic Materials, 2007, 313, 306-311.	2.3	3
47	Magnetization and magnetostriction process in spring-magnet TbFeCo/Fe multilayers with variable TbFeCo thickness. Journal of Magnetism and Magnetic Materials, 2007, 316, 379-382.	2.3	1
48	Magnetization and magnetostriction studies of TbFeCo/YFeCo multilayers. Hyperfine Interactions, 2007, 169, 1337-1342.	0.5	0
49	Swift ion irradiation of magnetostrictive multilayers. Nuclear Instruments & Methods in Physics Research B, 2006, 245, 157-160.	1.4	5
50	Investigation of TbCo ₂ /Fe Magnetostrictive Multilayers by Laser Assisted Tomographic Atom Probe (LATAP). , 2006, , .		0
51	Swift heavy-ion modification of the interface structure in Fe/Cr multilayers. Vacuum, 2005, 78, 661-665.	3.5	10
52	Effect of annealing on the structural and magnetic properties of giant magnetostrictive multilayers. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 839-842.	2.3	5
53	CEMS Investigations of Swift Heavy Ion Irradiation Effects in Tb/Fe Multilayers. Hyperfine Interactions, 2004, 156/157, 615-621.	0.5	1
54	CEMS Investigations of Swift Heavy Ion Irradiation Effects in Tb/Fe Multilayers. , 2004, , 615-621.		0

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55	Ion irradiation of exchange bias systems for magnetic sensor applications. Applied Physics A: Materials Science and Processing, 2003, 77, 51-56.	2.3	29
56	Synthesis and magnetic properties of Ni ₃ Fe intermetallic compound obtained by mechanical alloying. Journal of Alloys and Compounds, 2003, 352, 34-40.	5.5	70
57	Tuning exchange bias and coercive fields in ferromagnet/antiferromagnet bilayers with ion irradiation. Journal of Applied Physics, 2002, 91, 6896.	2.5	39
58	Damage processes in Fe ₃ O ₄ magnetic insulator irradiated by swift heavy ions. Experimental results and modelisation. European Physical Journal B, 2001, 24, 291-295.	1.5	6
59	Induced magnetic anisotropy in metallic glasses irradiated by swift heavy ions. Journal of Applied Physics, 2001, 89, 3151-3155.	2.5	11
60	Directional effects of heavy-ion irradiation in Tb/Fe multilayers. Physical Review B, 2000, 61, 12-15.	3.2	242
61	Interfacial reactions and evolution of the magnetic anisotropy in Tb/Fe multilayers irradiated by swift heavy ions. Applied Physics Letters, 1999, 74, 2378-2380.	3.3	7
62	Magnetic composite materials obtained by swift heavy-ion irradiation of yttrium iron garnet ceramics. Applied Physics Letters, 1999, 75, 1296-1298.	3.3	6
63	Evidence for recrystallization of amorphous Fe/Tb multilayers under swift ion irradiation. Nuclear Instruments & Methods in Physics Research B, 1998, 146, 244-249.	1.4	5
64	Selective and interface study: Swift uranium ion irradiation effect. Solid State Communications, 1998, 106, 83-86.	1.9	4
65	Structural and magnetic properties of the Ti/Fe multilayers. Journal of Applied Physics, 1998, 84, 3311-3316.	2.5	17
66	Magnetic and Mössbauer studies of Fe/V multilayers. Journal of Physics Condensed Matter, 1998, 10, 5791-5797.	1.8	4
67	Structural and magnetic transformations of annealed Tb/Fe multilayers. Journal of Applied Physics, 1998, 84, 379-385.	2.5	15
68	Effect of annealing on the magnetic and structural properties of amorphous Fe/Tb multilayers. Journal of Magnetism and Magnetic Materials, 1997, 165, 405-407.	2.3	9
69	Propriétés magnétiques et structurales de multicouches Fe/Ti. European Physical Journal Special Topics, 1996, 06, C7-167-C7-172.	0.2	0