Jean Juraszek

List of Publications by Year
in descending order

69 papers	1,845 citations	331670 21 h-index	265206 42 g-index
72 all docs	72 docs citations	72 times ranked	2731 citing authors

#	Article	IF	Citations
1	Crafting the magnonic and spintronic response of BiFeO3 films by epitaxial strain. Nature Materials, 2013, 12, 641-646.	27.5	311
2	Directional effects of heavy-ion irradiation in Tb/Fe multilayers. Physical Review B, 2000, 61, 12-15.	3.2	242
3	Bridging Multiferroic Phase Transitions by Epitaxial Strain in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>BiFeO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2010, 105, 057601.	7.8	147
4	Fe Spin Reorientation across the Metamagnetic Transition in Strained FeRh Thin Films. Physical Review Letters, 2012, 109, 117201.	7.8	103
5	Multiferroic Phase Transition near Room Temperature in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>BiFeO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>Films. Physical Review Letters, 2011, 107, 237601.	7.8	88
6	Strain and Magnetic Field Induced Spinâ€Structure Transitions in Multiferroic BiFeO₃. Advanced Materials, 2017, 29, 1602327.	21.0	76
7	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
8	Synthesis and magnetic properties of Ni3Fe intermetallic compound obtained by mechanical alloying. Journal of Alloys and Compounds, 2003, 352, 34-40.	5.5	70
9	The Experimentalist's Guide to the Cycloid, or Noncollinear Antiferromagnetism in Epitaxial BiFeO₃. Advanced Materials, 2020, 32, e2003711.	21.0	45
10	Tuning exchange bias and coercive fields in ferromagnet/antiferromagnet bilayers with ion irradiation. Journal of Applied Physics, 2002, 91, 6896.	2.5	39
11	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
12	Ion irradiation of exchange bias systems for magnetic sensor applications. Applied Physics A: Materials Science and Processing, 2003, 77, 51-56.	2.3	29
13	Atom-Probe Tomographic Studies of Thin Films and Multilayers. MRS Bulletin, 2009, 34, 732-737.	3.5	28
14	Mecanosynthesis of partially inverted zinc ferrite. Journal of Alloys and Compounds, 2009, 473, 303-307.	5.5	26
15	Interfacial Strain Gradients Control Nanoscale Domain Morphology in Epitaxial BiFeO₃ Multiferroic Films. Advanced Functional Materials, 2020, 30, 2000343.	14.9	26
16	Effect of chemical order on the magnetic and electronic properties of epitaxial off-stoichiometryFexSi1â^'xthin films. Physical Review B, 2015, 91, .	3.2	24
17	XBi₄S₇ (X = Mn, Fe): New Costâ€Efficient Layered nâ€Type Thermoelectric Sulfides with Ultralow Thermal Conductivity. Advanced Functional Materials, 2019, 29, 1904112.	14.9	24
18	Surface and bulk magnetic properties of as-quenched FeNbB ribbons. Journal of Magnetism and Magnetic Materials, 2008, 320, 1535-1540.	2.3	23

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19	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
20	Ordered sphalerite derivative Cu₅Sn₂S₇: a degenerate semiconductor with high carrier mobility in the Cuâ€“Snâ€“S diagram. Journal of Materials Chemistry A, 2021, 9, 10812-10826.	10.3	23
21	A scalable synthesis route for multiscale defect engineering in the sustainable thermoelectric quaternary sulfide Cu26V2Sn6S32. Acta Materialia, 2020, 195, 229-239.	7.9	22
22	A setup combining magneto-optical Kerr effect and conversion electron MÃ¶ssbauer spectrometry for analysis of the near-surface magnetic properties of thin films. Review of Scientific Instruments, 2009, 80, 043905.	1.3	21
23	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
24	A magnetic phase diagram for nanoscale epitaxial BiFeO3 films. Applied Physics Reviews, 2019, 6, .	11.3	19
25	Atomic-scale study of TbCo2.5/Fe multilayers by laser-assisted tomographic atom probe. Journal of Applied Physics, 2007, 102, .	2.5	18
26	Structural and magnetic properties of the Ti/Fe multilayers. Journal of Applied Physics, 1998, 84, 3311-3316.	2.5	17
27	Magnetic and MÃ¶ssbauer characterization of the magnetic properties of single-crystalline sub-micron sized Bi2Fe4O9 cubes. Current Applied Physics, 2015, 15, 417-422.	2.4	17
28	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
29	Structural and magnetic transformations of annealed Tb/Fe multilayers. Journal of Applied Physics, 1998, 84, 379-385.	2.5	15
30	An Innovative Process Using Only Water and Sodium Chloride for Recovering Rare Earth Elements from Ndâ€“Feâ€“B Permanent Magnets Found in the Waste of Electrical and Electronic Equipment. ACS Sustainable Chemistry and Engineering, 2016, 4, 6455-6462.	6.7	13
31	Seed-mediated synthesis, properties and application of Î³-Fe2O3â€“CdSe magnetic quantum dots. Journal of Solid State Chemistry, 2011, 184, 2150-2158.	2.9	12
32	Structure and magnetic properties of epitaxial CaFe2O4 thin films. Npj Quantum Materials, 2020, 5, .	5.2	12
33	Induced magnetic anisotropy in metallic glasses irradiated by swift heavy ions. Journal of Applied Physics, 2001, 89, 3151-3155.	2.5	11
34	Long-Range Cationic Order Collapse Triggered by S/Cl Mixed-Anion Occupancy Yields Enhanced Thermoelectric Properties in Cu₅Sn₂S₇. Chemistry of Materials, 2021, 33, 9425-9438.	6.7	11
35	Swift heavy-ion modification of the interface structure in Fe/Cr multilayers. Vacuum, 2005, 78, 661-665.	3.5	10
36	Insight into magnetic, ferroelectric and elastic properties of strained BiFeO3 thin films through MÃ¶ssbauer spectroscopy. Applied Physics Letters, 2016, 109, .	3.3	10

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37	Fe implantation effect in the 6H-SiC semiconductor investigated by MÃ¶ssbauer spectrometry. Journal of Applied Physics, 2017, 122, 083905.	2.5	10
38	Promoted crystallisation and cationic ordering in thermoelectric Cu₂₆V₂Sn₆S₃₂ colusite by eccentric vibratory ball milling. Dalton Transactions, 2020, 49, 15828-15836.	3.3	10
39	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
40	Probing the origins of magnetism in 2 at% Fe-implanted 4H-SiC. Scripta Materialia, 2020, 188, 157-163.	5.2	9
41	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
42	Influence of flexoelectricity on the spin cycloid in (110)-oriented <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>BiFe</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> films. Physical Review Materials, 2019, 3, .	2.4	9
43	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
44	Magnetic composite materials obtained by swift heavy-ion irradiation of yttrium iron garnet ceramics. Applied Physics Letters, 1999, 75, 1296-1298.	3.3	6
45	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
46	Structural investigation of TbCo2/Fe magnetostrictive thin films by tomographic atom probe and MÃ¶ssbauer spectrometry. Journal of Magnetism and Magnetic Materials, 2007, 310, 2215-2216.	2.3	6
47	Impact of the iron substitution on the thermoelectric properties of Co _{1â^' x} Fe _x S ₂ (x â€‰â‰¤â€‰0.30). Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180337.	3.4	6
48	Non-auxetic/auxetic transitions inducing modifications of the magnetic anisotropy in CoFe2O4 thin films. Journal of Alloys and Compounds, 2020, 836, 155425.	5.5	6
49	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
50	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
51	Swift ion irradiation of magnetostrictive multilayers. Nuclear Instruments & Methods in Physics Research B, 2006, 245, 157-160.	1.4	5
52	6H-SiC-Fe Nanostructures Studied by Atom Probe Tomography. IEEE Magnetics Letters, 2018, 9, 1-3.	1.1	5
53	Selective and interface study: Swift uranium ion irradiation effect. Solid State Communications, 1998, 106, 83-86.	1.9	4
54	Magnetic and MÃ¶ssbauer studies of Fe/V multilayers. Journal of Physics Condensed Matter, 1998, 10, 5791-5797.	1.8	4

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55	Investigation of (Fe/Dy) multilayers by 57Fe MÃ¶ssbauer spectrometry. Journal of Magnetism and Magnetic Materials, 2007, 313, 306-311.	2.3	3
56	Atom probe tomography of swift ion irradiated multilayers. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 912-916.	1.4	3
57	Structural and magnetic properties of (Fe/Mn) exchange-biased multilayers. Physica B: Condensed Matter, 2013, 416, 45-50.	2.7	3
58	Publisherâ€™s Note: Bridging Multiferroic Phase Transitions by Epitaxial Strain inBiFeO3 [Phys. Rev. Lett.105, 057601 (2010)]. Physical Review Letters, 2010, 105, .	7.8	2
59	A MÃ¶ssbauer investigation of the formation of the Ni3Fe phase by high energy ball milling and subsequent annealing. Intermetallics, 2013, 35, 128-134.	3.9	2
60	Origin of the magnetic properties of Fe-implanted 4H-SiC semiconductor. Journal of Applied Physics, 2020, 127, 183901.	2.5	2
61	CEMS Investigations of Swift Heavy Ion Irradiation Effects in Tb/Fe Multilayers. Hyperfine Interactions, 2004, 156/157, 615-621.	0.5	1
62	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
63	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
64	Local strain-induced ferromagnetism in inhomogeneous Fe-implanted silicon carbide. Solid State Sciences, 2022, 126, 106844.	3.2	1
65	PropriÃ©tÃ©s magnÃ©tiques et structurales de multicouches Fe/Ti. European Physical Journal Special Topics, 1996, 06, C7-167-C7-172.	0.2	0
66	Investigation of TbCo2/Fe Magnetostrictive Multilayers by Laser Assisted Tomographic Atom Probe (LATAP). , 2006, , .		0
67	Magnetostrictive properties of Kr-ion irradiated multilayers. Journal of Magnetism and Magnetic Materials, 2007, 310, 2624-2626.	2.3	0
68	Magnetization and magnetostriction studies of TbFeCo/YFeCo multilayers. Hyperfine Interactions, 2007, 169, 1337-1342.	0.5	0
69	CEMS Investigations of Swift Heavy Ion Irradiation Effects in Tb/Fe Multilayers. , 2004, , 615-621.		0