Arjun K Pathak

List of Publications by Year
in descending order

38	1,011	687363 13	414414 32
papers	citations	h-index	g-index

39	39	39	1126
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Magnetotransport and magnetic textures in Ho/FeCoGd/ <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi></mml:math> -W multilayers. Physical Review B, 2022, 105, .	3.2	3
2	Nanotubes from the Misfit Layered Compound (SmS)_{1.19}TaS₂: Atomic Structure, Charge Transfer, and Electrical Properties. Chemistry of Materials, 2022, 34, 1838-1853.	6.7	5
3	Possible quantum phase transition in partially Cu-doped ZrNi_{2-x}Cu_xGa Heusler alloys. AIP Advances, 2022, 12, 035237.	1.3	0
4	Near room temperature magnetocaloric properties in Ni deficient (Mn0.525Fe0.5)Ni0.975Si0.95Al0.05. AIP Advances, 2022, 12, .	1.3	8
5	Anomalous electrical transport behavior in the vicinity of the first-order magnetostructural transition in the giant magnetocaloric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Gd</mml:mi><mml:mn>4</mml:mn></mml:msub> Physical Review B, 2022, 105, .	3.2	1
6	Unusual magnetic and transport properties in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>HoMn</mml:mi><mml:mn>6</mml:mn> kagome magnet. Physical Review Materials, 2022, 6, .	2.4	8
7	Distinctive exchange bias and unusual memory effects in magnetically compensated Pr_{0.75}Gd_{0.25}ScGe. Journal of Materials Chemistry C, 2021, 9, 181-188.	5.5	6
8	Magnetic ground states of Ce₃TiSb₅, Pr₃TiSb₅ and Nd₃TiSb₅ determined by neutron powder diffraction and magnetic measurements. Journal of Physics Condensed Matter, 2021, 33, 245801.	1.8	5
9	Controlling magnetostructural transition and magnetocaloric effect in multi-component transition-metal-based materials. Journal of Applied Physics, 2021, 129, 193901.	2.5	14
10	Extraordinarily strong magneto-responsiveness in phase-separated LaFe2Si. Acta Materialia, 2021, 215, 117083.	7.9	2
11	Incommensurate transition-metal dichalcogenides via mechanochemical reshuffling of binary precursors. Nanoscale Advances, 2021, 3, 4065-4071.	4.6	4
12	Anisotropically large anomalous and topological Hall effect in a kagome magnet. Physical Review B, 2021, 104, .	3.2	23
13	Extreme ultraviolet time- and angle-resolved photoemission setup with 21.5 meV resolution using high-order harmonic generation from a turn-key Yb:KGW amplifier. Review of Scientific Instruments, 2020, 91, 013102.	1.3	13
14	First-order magnetic phase transition in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">P</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi>In</mml:mi></mml:mrow></mml:math> with negligible thermomagnetic hysteresis. Physical Review B, 2020, 101, .	3.2	28
15	Unprecedented generation of 3D heterostructures by mechanochemical disassembly and re-ordering of incommensurate metal chalcogenides. Nature Communications, 2020, 11, 3005.	12.8	7
16	Magnetic and transport behaviors of non-centrosymmetric Nd7Ni2Pd. AIP Advances, 2020, 10, 015103.	1.3	2
17	Anisotropy and orbital moment in Sm-Co permanent magnets. Physical Review B, 2019, 100, .	3.2	25
18	Designed materials with the giant magnetocaloric effect near room temperature. Acta Materialia, 2019, 180, 341-348.	7.9	73

#	Article	IF	Citations
19	Giant enhancement of the magnetocaloric response in Niâ€“Coâ€“Mnâ€“Ti by rapid solidification. Acta Materialia, 2019, 173, 225-230.	7.9	76
20	Managing hysteresis of Gd5Si2Ge2 by magnetic field cycling. Journal of Applied Physics, 2019, 126, 243902.	2.5	11
21	The first-order magnetoelastic transition in Eu2In: A 151Eu MÃ¶ssbauer study. AIP Advances, 2019, 9, 125137.	1.3	5
22	Anomalous specific heat and magnetic properties of TmxDy1-xAl2 (0Ââ‰Âx â‰ 1). Journal of Alloys and Compounds, 2019, 774, 321-330.	5.5	6
23	Multi-principal element transition metal dichalcogenides via reactive fusion of 3D-heterostructures. Chemical Communications, 2018, 54, 12574-12577.	4.1	7
24	Role of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>4</mml:mn><mml:mi>f</mml:mi></mml:mrow></mml:m in crystallographic and magnetic complexity. Physical Review B, 2017, 96, .	3.2	8
25	Tunable magnetism and structural transformations in mixed light- and heavy-lanthanide dialuminides. Physical Review B, 2016, 94, .	3.2	5
26	Cerium: An Unlikely Replacement of Dysprosium in High Performance Ndâ€“Feâ€“B Permanent Magnets. Advanced Materials, 2015, 27, 2663-2667.	21.0	283
27	Low temperature crystal structure and magnetic properties of RAl2. Journal of Applied Physics, 2014, 115, 17E109.	2.5	9
28	Unexpected magnetism, Griffiths phase, and exchange bias in the mixed lanthanide <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>Pr</mml:mtext><mml:mrow><mml:mn>0.6</mml:mn <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>Er</mml:mtext><mml:mrow><mml:mn>0.4</mml:mn <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>Al</mml:mtext><mml:mn>2</mml:mn></mml:ms.	3.2	23
29	Understanding and prediction of electronic-structure-driven physical behaviors in rare-earth compounds. Journal of Physics Condensed Matter, 2013, 25, 396002.	1.8	13
30	Anomalous Schottky Specific Heat and Structural Distortion in Ferromagnetic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>PrAl</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2013, 110, 186405.	7.8	38
31	Induced magnetic anisotropy and spin polarization in pulsed laserâ€“deposited Co2MnSb thin films. Journal of Applied Physics, 2012, 111, 023903.	2.5	2
32	Room Temperature Ferromagnetism and Photoluminescence of Fe Doped ZnO Nanocrystals. Journal of Physical Chemistry C, 2011, 115, 23671-23676.	3.1	81
33	Influence of the small substitution of Z=Ni, Cu, Cr, V for Fe on the magnetic, magnetocaloric, and magnetoelastic properties of LaFe11.4Si1.6. Journal of Magnetism and Magnetic Materials, 2010, 322, 692-697.	2.3	32
34	Magnetism and magnetocaloric effects in Ni50Mn35â^'xCoxIn15 Heusler alloys. Journal of Applied Physics, 2010, 107, .	2.5	30
35	Ferromagnetism in ZnO Nanocrystals: Doping and Surface Chemistry. Journal of Physical Chemistry C, 2010, 114, 1451-1459.	3.1	95
36	Large inverse magnetic entropy changes and magnetoresistance in the vicinity of a field-induced martensitic transformation in Ni50â^'xCoxMn32â^'yFeyGa18. Applied Physics Letters, 2010, 97, .	3.3	48

#	Article	IF	Citations
37	Magnetic, magnetocaloric, and magnetoelastic properties of LaFe11.57Si1.43Bx compounds. Journal of Applied Physics, 2009, 106, .	2.5	11
38	Additively Manufactured NdFeB Polyphenylene Sulfide Halbach Magnets to Generate Variable Magnetic Fields for Neutron Reflectometry. 3D Printing and Additive Manufacturing, 0, , .	2.9	1