

# Arjun K Pathak

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

1,011  
citations

687363

13  
h-index

414414

32  
g-index

39  
all docs

39  
docs citations

39  
times ranked

1126  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Cerium: An Unlikely Replacement of Dysprosium in High Performance Nd-Fe-B Permanent Magnets. <i>Advanced Materials</i> , 2015, 27, 2663-2667.   | 21.0 | 283       |
| 2  | Ferromagnetism in ZnO Nanocrystals: Doping and Surface Chemistry. <i>Journal of Physical Chemistry C</i> , 2010, 114, 1451-1459.  | 3.1  | 95        |
| 3  | Room Temperature Ferromagnetism and Photoluminescence of Fe Doped ZnO Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2011, 115, 23671-23676.  | 3.1  | 81        |
| 4  | Giant enhancement of the magnetocaloric response in Ni-Co-Mn-Ti by rapid solidification. <i>Acta Materialia</i> , 2019, 173, 225-230.   | 7.9  | 76        |
| 5  | Designed materials with the giant magnetocaloric effect near room temperature. <i>Acta Materialia</i> , 2019, 180, 341-348.   | 7.9  | 73        |
| 6  | Large inverse magnetic entropy changes and magnetoresistance in the vicinity of a field-induced martensitic transformation in Ni <sub>50</sub> Co <sub>x</sub> Mn <sub>32</sub> Fe <sub>y</sub> Ga <sub>18</sub> . <i>Applied Physics Letters</i> , 2010, 97, . | 3.3  | 48        |
| 7  | Anomalous Schottky Specific Heat and Structural Distortion in Ferromagnetic $\text{PrAl}_2$ . <i>Physical Review Letters</i> , 2013, 110, 186405.   | 7.8  | 38        |
| 8  | Influence of the small substitution of Z=Ni, Cu, Cr, V for Fe on the magnetic, magnetocaloric, and magnetoelastic properties of LaFe <sub>11.4</sub> Si <sub>1.6</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 692-697.               | 2.3  | 32        |
| 9  | Magnetism and magnetocaloric effects in Ni <sub>50</sub> Mn <sub>35</sub> Co <sub>x</sub> In <sub>15</sub> Heusler alloys. <i>Journal of Applied Physics</i> , 2010, 107, .   | 2.5  | 30        |
| 10 | First-order magnetic phase transition in $\text{P}_r\text{Mn}_2\text{In}$ with negligible thermomagnetic hysteresis. <i>Physical Review B</i> , 2020, 101, .  | 3.2  | 28        |
| 11 | Anisotropy and orbital moment in Sm-Co permanent magnets. <i>Physical Review B</i> , 2019, 100, .   | 3.2  | 25        |
| 12 | Unexpected magnetism, Griffiths phase, and exchange bias in the mixed lanthanide $\text{Pr}_{0.6}\text{Er}_{0.4}\text{Mn}$ .  | 3.2  | 23        |
| 13 | Anisotropically large anomalous and topological Hall effect in a kagome magnet. <i>Physical Review B</i> , 2021, 104, .   | 3.2  | 23        |
| 14 | Controlling magnetostructural transition and magnetocaloric effect in multi-component transition-metal-based materials. <i>Journal of Applied Physics</i> , 2021, 129, 193901.  | 2.5  | 14        |
| 15 | Understanding and prediction of electronic-structure-driven physical behaviors in rare-earth compounds. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 396002.  | 1.8  | 13        |
| 16 | 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. <i>Review of Scientific Instruments</i> , 2020, 91, 013102.                                    | 1.3  | 13        |
| 17 | Magnetic, magnetocaloric, and magnetoelastic properties of LaFe <sub>11.57</sub> Si <sub>1.43</sub> B <sub>x</sub> compounds. <i>Journal of Applied Physics</i> , 2009, 106, .  | 2.5  | 11        |
| 18 | Managing hysteresis of Gd <sub>5</sub> Si <sub>2</sub> Ge <sub>2</sub> by magnetic field cycling. <i>Journal of Applied Physics</i> , 2019, 126, 243902.  | 2.5  | 11        |



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|----|---|-----|-----------|
| 37 | Anomalous electrical transport behavior in the vicinity of the first-order magnetostructural transition in the giant magnetocaloric $\text{GdMn}_4\text{Ge}_3$<br>Physical Review B, 2022, 105, . | 3.2 | 1         |
| 38 | Possible quantum phase transition in partially Cu-doped $\text{ZrNi}_{2-x}\text{Cu}_x\text{Ga}$ Heusler alloys. AIP Advances, 2022, 12, 035237.   | 1.3 | 0         |