

# Aravind Puthirath Balan

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6353905/publications.pdf>

Version: 2024-02-01

13  
papers

590  
citations

1163117

8  
h-index

1199594

12  
g-index

13  
all docs

13  
docs citations

13  
times ranked

1003  
citing authors

#	ARTICLE	IF	CITATIONS
1	Exfoliation of a non-van der Waals material from iron ore hematite. <i>Nature Nanotechnology</i> , 2018, 13, 602-609.	31.5	295
2	A Non-van der Waals Two-Dimensional Material from Natural Titanium Mineral Ore Ilmenite. <i>Chemistry of Materials</i> , 2018, 30, 5923-5931.	6.7	82
3	Transparent flexible lithium ion conducting solid polymer electrolyte. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11152-11162.	10.3	68
4	Magnetic Properties and Photocatalytic Applications of 2D Sheets of Nonlayered Manganese Telluride by Liquid Exfoliation. <i>ACS Applied Nano Materials</i> , 2018, 1, 6427-6434.	5.0	33
5	Apparent Ferromagnetism in Exfoliated Ultrathin Pyrite Sheets. <i>Journal of Physical Chemistry C</i> , 2021, 125, 18927-18935.	3.1	30
6	Two-Dimensional Amorphous Cr <sub>2</sub> O <sub>3</sub> Modified Metallic Electrodes for Hydrogen Evolution Reaction. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1900025.	2.4	21
7	Friction of magnetene, a non-van der Waals 2D material. <i>Science Advances</i> , 2021, 7, eabk2041.	10.3	21
8	Scale-Enhanced Magnetism in Exfoliated Atomically Thin Magnetite Sheets. <i>Small</i> , 2020, 16, e2004208.	10.0	15
9	Magneto-optical properties of a magneto-plasmonic nanofluid based on superparamagnetic iron oxide and gold nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 536, 168092.	2.3	8
10	Nanocomposite Permanent Magnets Based on SrFe <sub>12</sub> O <sub>19</sub> -Fe <sub>3</sub> O <sub>4</sub> Hard-Soft Ferrites. <i>Journal of Superconductivity and Novel Magnetism</i> , 2021, 34, 3333-3344.	1.8	8
11	Defect induced enhancement of exchange bias by swift heavy ion irradiation in zinc ferrite-FeNiMoB alloy based bilayer films. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2015, 360, 68-74.	1.4	5
12	Bistability of magnetic states in Fe-Pd nanocap arrays. <i>Nanotechnology</i> , 2019, 30, 405705.	2.6	4
13	Study of the modified magnetic, dielectric, ferroelectric and optical properties in Ni substituted GdFe <sub>1-x</sub> Ni <sub>x</sub> O <sub>3</sub> orthoferrites. <i>Nanotechnology</i> , 2022, 33, 035705.	2.6	0