

# Javier Rial

## List of Publications by Year in descending order

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15  
papers

320  
citations

759233

12  
h-index

1058476

14  
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15  
docs citations

15  
times ranked

341  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of permanent magnet MnAlC/polymer composites and flexible filament for bonding and 3D-printing technologies. Science and Technology of Advanced Materials, 2018, 19, 465-473.	6.1	57
2	Magnetic-Polymer Composites for Bonding and 3D Printing of Permanent Magnets. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	39
3	Application of a novel flash-milling procedure for coercivity development in nanocrystalline MnAl permanent magnet powders. Journal Physics D: Applied Physics, 2017, 50, 105004.	2.8	31
4	Towards high performance CoFe <sub>2</sub> O <sub>4</sub> isotropic nanocrystalline powder for permanent magnet applications. Applied Physics Letters, 2016, 109, .	3.3	30
5	Study of phases evolution in high-coercive MnAl powders obtained through short milling time of gas-atomized particles. Journal of Alloys and Compounds, 2017, 712, 373-378.	5.5	27
6	Severe tuning of permanent magnet properties in gas-atomized MnAl powder by controlled nanostructuring and phase transformation. Acta Materialia, 2018, 157, 42-52.	7.9	24
7	Tunable nanocrystalline CoFe <sub>2</sub> O <sub>4</sub> isotropic powders obtained by co-precipitation and ultrafast ball milling for permanent magnet applications. RSC Advances, 2016, 6, 87282-87287.	3.6	22
8	Phase-pure $\bar{1}$ , -MnAlC produced by mechanical alloying and a one-step annealing route. Journal of Alloys and Compounds, 2019, 779, 776-783.	5.5	18
9	A Novel Design of a 3D Racetrack Memory Based on Functional Segments in Cylindrical Nanowire Arrays. Nanomaterials, 2020, 10, 2403.	4.1	15
10	Efficient Nanostructuring of Isotropic Gas-Atomized MnAl Powder by Rapid Milling (30 s). Engineering, 2020, 6, 173-177.	6.7	14
11	Recycling of Strontium Ferrite Waste in a Permanent Magnet Manufacturing Plant. ACS Sustainable Chemistry and Engineering, 2017, 5, 3243-3249.	6.7	12
12	Fabrication of bulk $\bar{1}$ , MnAlC magnets by hot-pressing from $\hat{\mu}$ -phase gas-atomized and milled powder. Journal of Alloys and Compounds, 2020, 847, 156361.	5.5	12
13	Magnetic reversal modes in cylindrical nanostructures: from disks to wires. Scientific Reports, 2021, 11, 10100.	3.3	12
14	Coercivity development in MnAl ribbons by microstructural modifications achieved through cold-rolling process. Journal of Magnetism and Magnetic Materials, 2021, 529, 167826.	2.3	7
15	CoFe <sub>2</sub> O <sub>4</sub> isotropic powders for permanent magnet applications. , 2015, , .		0