

Angel Muoz

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

121
papers

3,749
citations

31
h-index

58
g-index

139
ext. papers

4,137
ext. citations

3.6
avg, IF

4.68
L-index

#	Paper	IF	Citations
121	High-heat flux Cu-0.8Y alloys investigated by positron annihilation spectroscopy. <i>Journal of Alloys and Compounds</i> , 2022 , 900, 163430	5.7	0
120	Production and characterization of the Cr ₃₅ Fe ₃₅ V _{16.5} Mo ₆ Ti _{7.5} high entropy alloy. <i>Nuclear Materials and Energy</i> , 2022 , 30, 101148	2.1	0
119	Characterization and evaluation of CuCrFeV(Ti, Ta, W) system for High Heat Flux applications. <i>Nuclear Materials and Energy</i> , 2022 , 101187	2.1	0
118	Enhancing the N _B L temperature in 3d/5d R ₂ NiR ₀₆ (R=La, Pr and Nd) double perovskites by reducing the R ₃₊ ionic radii. <i>Acta Materialia</i> , 2021 , 207, 116684	8.4	0
117	Fabrication and characterization of Cu reinforced with Y-enriched particles following a novel powder metallurgy route. <i>Nuclear Materials and Energy</i> , 2021 , 29, 101075	2.1	2
116	Exploring CuCrFeVTi system to produce high entropy alloys for high heat flux applications. <i>Nuclear Materials and Energy</i> , 2021 , 29, 101065	2.1	1
115	Fabrication and characterization of dispersion strengthened Cu-0.8%Y. <i>Fusion Engineering and Design</i> , 2020 , 154, 111548	1.7	3
114	Microstructure and mechanical properties of hot rolled ODS copper. <i>Nuclear Materials and Energy</i> , 2020 , 24, 100754	2.1	2
113	Influence of 1 and 5 wt% TiC additions on the oxidation behaviour of pure tungsten. <i>Nuclear Materials and Energy</i> , 2020 , 24, 100780	2.1	0
112	Magnetization spin reversal and neutron diffraction study of polycrystalline Tb _{0.55} Sr _{0.45} MnO ₃ . <i>Journal of Alloys and Compounds</i> , 2020 , 845, 156355	5.7	1
111	Low-temperature crystal and magnetic structures of the magnetoelectric material Fe ₄ Nb ₂ O ₉ . <i>Physical Review B</i> , 2019 , 100,	3.3	9
110	Large linear magnetoelectric effect and field-induced ferromagnetism and ferroelectricity in DyCrO ₄ . <i>NPG Asia Materials</i> , 2019 , 11,	10.3	9
109	Towards the EU fusion-oriented neutron source: The preliminary engineering design of IFMIF-DONES. <i>Fusion Engineering and Design</i> , 2019 , 146, 261-268	1.7	11
108	Oxidation behaviour of tungsten with vanadium additions. <i>Fusion Engineering and Design</i> , 2019 , 146, 783-786	1.7	4
107	Mechanical properties and microstructure of W/CuY and W/CuCrZr composites produced by hot isostatic pressing. <i>Fusion Engineering and Design</i> , 2019 , 146, 1829-1833	1.7	0
106	Processing, microstructure and mechanical characterization of dispersion strengthened Cu-1%Y. <i>Fusion Engineering and Design</i> , 2019 , 138, 321-331	1.7	12
105	Stress strain curves for thick electroformed Cu pieces. <i>Fusion Engineering and Design</i> , 2018 , 127, 17-22	1.7	

104	The IFMIF-DONES project: preliminary engineering design. <i>Nuclear Fusion</i> , 2018 , 58, 105002	3.3	56
103	Thermal Stability Study of Vacancy-Type Defects in Commercial Pure Titanium Using Positron Annihilation Spectroscopy . <i>Advanced Engineering Materials</i> , 2017 , 19, 1500649	3.5	3
102	Cytocompatibility, biofilm assembly and corrosion behavior of Mg-HAP composites processed by extrusion. <i>Materials Science and Engineering C</i> , 2017 , 78, 667-673	8.3	8
101	Thermal conductivity and diffusivity of Cu-Y alloys produced by different powder metallurgy routes. <i>Fusion Engineering and Design</i> , 2017 , 124, 1156-1160	1.7	9
100	Processing and mechanical characteristics of magnesium-hydroxyapatite metal matrix biocomposites. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017 , 69, 135-143	4.1	22
99	Structural and magnetic characterization of the double perovskites R ₂ NiRuO ₆ (R = Pr-Er): A neutron diffraction study. <i>Acta Materialia</i> , 2017 , 126, 114-123	8.4	18
98	LaMn ₃ Ni ₂ Mn ₂ O ₁₂ : An A- and B-Site Ordered Quadruple Perovskite with A-Site Tuning Orthogonal Spin Ordering. <i>Chemistry of Materials</i> , 2016 , 28, 8988-8996	9.6	18
97	SANS characterization of particle dispersions in W-Ti and W-V alloys. <i>International Journal of Refractory Metals and Hard Materials</i> , 2016 , 61, 173-178	4.1	6
96	Microstructure and mechanical properties of an ITER-grade CuCrZr alloy processed by equal channel angular pressing. <i>Fusion Engineering and Design</i> , 2015 , 98-99, 1978-1981	1.7	12
95	Small-angle neutron scattering study of the nano-sized features in an oxide dispersion-strengthened Fe ₁₂ Cr alloy. <i>Philosophical Magazine</i> , 2015 , 95, 2450-2465	1.6	10
94	Magnetic Interactions in the Double Perovskites R ₂ NiMnO ₆ (R = Tb, Ho, Er, Tm) Investigated by Neutron Diffraction. <i>Inorganic Chemistry</i> , 2015 , 54, 10890-900	5.1	37
93	Consolidation of W/Cu composites: Hot isostatic pressing and spark and pulse plasma sintering. <i>Fusion Engineering and Design</i> , 2015 , 98-99, 1950-1955	1.7	25
92	Microstructural and mechanical characterization of Cu-0.8 wt.%Y. <i>Fusion Engineering and Design</i> , 2015 , 98-99, 1941-1944	1.7	5
91	The effects of tantalum addition on the microtexture and mechanical behaviour of tungsten for ITER applications. <i>Journal of Nuclear Materials</i> , 2015 , 467, 949-955	3.3	18
90	Grain boundary misorientation and positron annihilation characteristics in steel Eurofer processed by equal channel angular pressing. <i>Journal of Materials Science</i> , 2014 , 49, 6722-6733	4.3	3
89	Fabrication and characterization of Y ₂ O ₃ dispersion strengthened copper alloys. <i>Journal of Nuclear Materials</i> , 2014 , 455, 655-659	3.3	31
88	Mechanical properties and corrosion behavior of Mg-HAP composites. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014 , 39, 238-46	4.1	75
87	Microstructural and mechanical characteristics of W/Ti and W/TiC processed by hot isostatic pressing. <i>Journal of Nuclear Materials</i> , 2014 , 455, 306-310	3.3	22

86	Mechanical characterisation of tungsten-1 wt.% yttrium oxide as a function of temperature and atmosphere. <i>Journal of Nuclear Materials</i> , 2014 , 454, 455-461	3-3	23
85	Effect of yttrium addition on the microstructure and mechanical properties of ODS RAF steels. <i>Journal of Nuclear Materials</i> , 2014 , 455, 600-604	3-3	11
84	A brief summary of the progress on the EFDA tungsten materials program. <i>Journal of Nuclear Materials</i> , 2013 , 442, S173-S180	3-3	63
83	Influence of processing route and yttria additions on the oxidation behavior of tungsten. <i>Journal of Nuclear Materials</i> , 2013 , 442, S214-S218	3-3	8
82	Thermal stability of the grain structure in the W-2V and W-2V-0.5Y ₂ O ₃ alloys produced by hot isostatic pressing. <i>Fusion Engineering and Design</i> , 2013 , 88, 2636-2640	1-7	11
81	Influence of the Bi ³⁺ electron lone pair in the evolution of the crystal and magnetic structure of La(1-x)Bi(x)Mn ₂ O ₅ oxides. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 216002	1-8	3
80	Microstructure and temperature dependence of the microhardness of W _{0.9} V _{0.1} La ₂ O ₃ and W _{0.9} Ti _{0.1} La ₂ O ₃ . <i>Journal of Nuclear Materials</i> , 2013 , 442, S229-S232	3-3	17
79	Microstructure and tensile properties of oxide dispersion strengthened Fe _{0.4} Cr _{0.3} Y ₂ O ₃ and Fe _{0.4} Cr _{0.3} Ti _{0.3} Y ₂ O ₃ . <i>Journal of Nuclear Materials</i> , 2013 , 442, S142-S147	3-3	34
78	Mechanical behavior of tungsten-niobium-tantalum alloys as function of temperature. <i>Journal of Nuclear Materials</i> , 2013 , 442, S277-S281	3-3	24
77	Microstructure and mechanical behavior of ODS and non-ODS Fe _{0.4} Cr model alloys produced by spark plasma sintering. <i>Journal of Nuclear Materials</i> , 2013 , 436, 68-75	3-3	61
76	Recent progress in research on tungsten materials for nuclear fusion applications in Europe. <i>Journal of Nuclear Materials</i> , 2013 , 432, 482-500	3-3	494
75	SANS evidence for the dispersion of nanoparticles in W _{0.9} Y ₂ O ₃ and W _{0.9} La ₂ O ₃ processed by hot isostatic pressing. <i>International Journal of Refractory Metals and Hard Materials</i> , 2012 , 33, 6-9	4-1	19
74	Magnetic Structures of HoCoO ₃ and TbCoO ₃ . <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 5825-5830	5-3	12
73	Serrated flow in powder metallurgy Al _{0.8} Mg _{0.2} Cr alloy processed by equal channel angular pressing. <i>Materials Characterization</i> , 2012 , 73, 16-30	3-9	3
72	On the magnetic structure of PrMn ₂ O ₅ : a neutron diffraction study. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 076003	1-8	5
71	Effects of heat treatment conditions on the microstructure and impact properties of EUROFER 97 ODS steel. <i>Physica Scripta</i> , 2011 , T145, 014083	2-6	1
70	High-temperature behavior and polymorphism in novel members of the perovskite family Pb ₂ LnSbO ₆ (Ln=Ho, Er, Yb, Lu). <i>Inorganic Chemistry</i> , 2011 , 50, 5545-57	5-1	8
69	Magnetic structure of LaCrO ₃ perovskite under high pressure from in situ neutron diffraction. <i>Physical Review Letters</i> , 2011 , 106, 057201	7-4	50

68	The materials production and processing facility at the Spanish National Centre for fusion technologies (TechnoFusi�). <i>Fusion Engineering and Design</i> , 2011 , 86, 2538-2540	1.7	
67	Development of oxide dispersion strengthened W alloys produced by hot isostatic pressing. <i>Fusion Engineering and Design</i> , 2011 , 86, 2534-2537	1.7	26
66	Microstructure and mechanical properties of ultrafine-grained Fe14Cr and ODS Fe14Cr model alloys. <i>Journal of Nuclear Materials</i> , 2011 , 417, 213-216	3.3	31
65	Review on the EFDA work programme on nano-structured ODS RAF steels. <i>Journal of Nuclear Materials</i> , 2011 , 417, 149-153	3.3	60
64	Review on the EFDA programme on tungsten materials technology and science. <i>Journal of Nuclear Materials</i> , 2011 , 417, 463-467	3.3	139
63	La2O3-reinforced W and W alloys produced by hot isostatic pressing. <i>Journal of Nuclear Materials</i> , 2011 , 417, 508-511	3.3	44
62	An original polymorph sequence in the high-temperature evolution of the perovskite Pb2TmSbO6. <i>Journal of the American Chemical Society</i> , 2010 , 132, 14470-80	16.4	27
61	Crystal and magnetic study of the disordered perovskites Ca(Mn0.5Sb0.5)O3 and Ca(Fe0.5Sb0.5)O3. <i>Materials Research Bulletin</i> , 2010 , 45, 1449-1454	5.1	10
60	Synthesis, structural study and magnetic properties of TbFeMnO5. <i>Solid State Communications</i> , 2010 , 150, 1831-1836	1.6	7
59	Raman and infrared spectroscopy of Sr2B?UO6 (B? = Ni; Co) double perovskites. <i>Vibrational Spectroscopy</i> , 2010 , 54, 142-147	2.1	3
58	Influence of yttria additions on the oxidation behaviour of titanium prepared by powder metallurgy. <i>Scripta Materialia</i> , 2009 , 60, 1008-1011	5.6	9
57	Microstructural characterization of Y2O3 ODSBeCr model alloys. <i>Journal of Nuclear Materials</i> , 2009 , 386-388, 449-452	3.3	39
56	Void formation in ODS EUROFER produced by hot isostatic pressing. <i>Journal of Nuclear Materials</i> , 2009 , 386-388, 462-465	3.3	20
55	On the magnetic structure of DyNiO3. <i>Journal of Solid State Chemistry</i> , 2009 , 182, 1982-1989	3.3	21
54	Mechanical characteristics of porous hydroxyapatite/oxide composites produced by post-sintering hot isostatic pressing. <i>Ceramics International</i> , 2009 , 35, 2373-2380	5.1	23
53	High-pressure synthesis and study of the crystal and magnetic structures of the distorted SeMO3(M= Mn, Co, Ni, Zn) perovskites. <i>Journal of Physics: Conference Series</i> , 2008 , 121, 032004	0.3	4
52	Crystallographic and magnetic structure of SrCoO2.5 brownmillerite: Neutron study coupled with band-structure calculations. <i>Physical Review B</i> , 2008 , 78,	3.3	139
51	Ferromagnetic behavior in La(Cu3Mnx)Mn4O12 (x=1,2) perovskites. <i>Journal of Applied Physics</i> , 2008 , 104, 083911	2.5	16

50	Positron annihilation characteristics of ODS and non-ODS EUROFER isochronally annealed. <i>Journal of Nuclear Materials</i> , 2008 , 376, 222-228	3.3	24
49	Synthesis and Study of the Crystallographic and Magnetic Structure of HoFeMnO ₅ . <i>European Journal of Inorganic Chemistry</i> , 2007 , 2007, 1972-1979	2.3	14
48	Magnetic properties and magnetic structure of. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 310, 1575-1577	2.8	1
47	Mechanical and microstructural behaviour of Y ₂ O ₃ ODS EUROFER 97. <i>Journal of Nuclear Materials</i> , 2007 , 367-370, 196-201	3.3	53
46	High pressure synthesis, crystal, magnetic structure and magnetotransport of SrFe _{0.5} Co _{0.5} O ₃ □ _{1/2} . <i>Journal of Solid State Chemistry</i> , 2006 , 179, 3365-3370	3.3	19
45	High-pressure synthesis and study of the crystal and magnetic structure of the distorted SeNiO ₃ and SeMnO ₃ perovskites. <i>Dalton Transactions</i> , 2006 , 4936-43	4.3	17
44	Synthesis and study of the crystallographic and magnetic structure of SeCoO ₃ . <i>Physical Review B</i> , 2006 , 73,	3.3	19
43	Moderate-pressure Synthesis and Neutron Diffraction Study of New Metastable Oxides. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2006 , 61, 1507-1514	1	4
42	Microstructure and tensile properties of Y ₂ O ₃ -dispersed titanium produced by arc melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 422, 189-197	5.3	42
41	Crystal and magnetic structure of the double perovskite Sr ₂ CoUO ₆ : a neutron diffraction study. <i>Dalton Transactions</i> , 2005 , 447-51	4.3	19
40	Peculiar Magnetic Behavior of the TbCu ₃ Mn ₄ O ₁₂ Complex Perovskite. <i>Chemistry of Materials</i> , 2005 , 17, 5070-5076	9.6	19
39	Preparation, crystal and magnetic structures of two new double perovskites: Ca ₂ CoTeO ₆ and Sr ₂ CoTeO ₆ . <i>Journal of Materials Chemistry</i> , 2005 , 15, 993-1001		44
38	Relationship between hardness and tensile tests in titanium reinforced with yttria nanoparticles. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 400-401, 345-348	5.3	12
37	A Study of the Magnetic Structure of LaMn ₂ O ₅ from Neutron Powder Diffraction Data. <i>European Journal of Inorganic Chemistry</i> , 2005 , 2005, 685-691	2.3	30
36	Synthesis and study of the crystallographic and magnetic structure of the ferrimagnetic oxide ErFeMnO ₅ . <i>Physical Review B</i> , 2005 , 72,	3.3	22
35	Crystal Growth of RNiO ₃ Perovskites Under High Oxygen Pressure and Hydrothermal Conditions.. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 878, 1		2
34	Crystal growth of NdNiO ₃ perovskite under high oxygen pressure. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, S1277-S1281	1.8	11
33	A neutron diffraction study of the crystallographic and magnetic structure of LuVO ₃ . <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, 2163-2164	2.8	4

32	Thermal Evolution of the Crystallographic and Magnetic Structure in LuVO ₃ : A Neutron Diffraction Study. <i>Chemistry of Materials</i> , 2004 , 16, 1544-1550	9.6	18
31	Synthesis, Structural, and Magnetic Characterization of a New Ferrimagnetic Oxide: γ -YFeMnO ₅ . <i>Chemistry of Materials</i> , 2004 , 16, 4087-4094	9.6	29
30	Mechanical dispersion of Y ₂ O ₃ nanoparticles in steel EUROFER 97: process and optimisation. <i>Journal of Nuclear Materials</i> , 2003 , 322, 228-234	3.3	50
29	Structural and magnetic transition in YbVO ₃ : a neutron diffraction study. <i>Journal of Materials Chemistry</i> , 2003 , 13, 1234-1240		24
28	Role of halogens in the mechanism of sensitization of uncooled PbSe infrared photodetectors. <i>Journal of Applied Physics</i> , 2003 , 93, 1778-1784	2.5	59
27	Crystallographic and magnetic transitions in CeVO ₃ : A neutron diffraction study. <i>Physical Review B</i> , 2003 , 68,	3.3	31
26	Tribological study of vanadium-based alloys ion implanted at low energy and high temperature. <i>Vacuum</i> , 2002 , 67, 543-550	3.7	5
25	Discontinuously reinforced titanium matrix composites for fusion applications. <i>Journal of Nuclear Materials</i> , 2002 , 307-311, 691-695	3.3	13
24	Magnetic structure and properties of BiMn ₂ O ₅ oxide: A neutron diffraction study. <i>Physical Review B</i> , 2002 , 65,	3.3	109
23	Annealing-Induced Enhancement of the Gas Diffusivity in Coextruded LLDPE Films Investigated by Positron Lifetime Spectroscopy. <i>Macromolecules</i> , 2002 , 35, 8088-8092	5.5	8
22	Crystal and magnetic structure of the complex oxides Sr ₂ MnMoO ₆ , Sr ₂ MnWO ₆ and Ca ₂ MnWO ₆ : a neutron diffraction study. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 8817-8830	1.8	23
21	The magnetic structure of YMnO ₃ perovskite revisited. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 3285-3294	1.8	128
20	Titanium segregation mechanism in deformed vanadium-titanium alloys. <i>Philosophical Magazine Letters</i> , 2001 , 81, 259-264	1	2
19	Complex Magnetism and Magnetic Structures of the Metastable HoMnO ₃ Perovskite. <i>Inorganic Chemistry</i> , 2001 , 40, 1020-1028	5.1	197
18	Evolution of the Magnetic Structure of Hexagonal HoMnO ₃ from Neutron Powder Diffraction Data. <i>Chemistry of Materials</i> , 2001 , 13, 1497-1505	9.6	131
17	Study of the incommensurate-commensurate magnetic transition in HoMnO ₃ perovskite. <i>Journal of Alloys and Compounds</i> , 2001 , 323-324, 486-489	5.7	4
16	Intergranular Coulomb barriers in thin films of magnetoresistive manganites. <i>Thin Solid Films</i> , 2000 , 373, 94-97	2.2	1
15	Magnetic structure of hexagonal RMnO ₃ (R=Y, Sc): Thermal evolution from neutron powder diffraction data. <i>Physical Review B</i> , 2000 , 62, 9498-9510	3.3	258

14	Preparation, Crystal Structure, and Magnetic and Magnetotransport Properties of the Double Perovskite Ca ₂ FeMoO ₆ . <i>Chemistry of Materials</i> , 2000 , 12, 161-168	9.6	101
13	Magnetic structure evolution of NdMnO ₃ derived from neutron diffraction data. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 1361-1376	1.8	90
12	Magnetic structure evolution of Pr _{1-x} MnO ₃ perovskite from neutron powder diffraction data. <i>Solid State Communications</i> , 1999 , 113, 227-231	1.6	8
11	Effect of Ti solute on the recovery of cold-rolled V-Ti alloys. <i>Journal of Nuclear Materials</i> , 1999 , 275, 138-145	3.5	4
10	High-Pressure Preparation, Crystal Structure, Magnetic Properties, and Phase Transitions in GdNiO ₃ and DyNiO ₃ Perovskites. <i>Chemistry of Materials</i> , 1999 , 11, 2463-2469	9.6	44
9	PbSe photodetector arrays for IR sensors. <i>Thin Solid Films</i> , 1998 , 317, 425-428	2.2	49
8	Magnetic structures of LaMnO ₃ + δ perovskites ($\delta = 0.11, 0.15, 0.26$). <i>Solid State Communications</i> , 1997 , 102, 7-12	1.6	51
7	The magnetic structures of Ce ₃ Al ₁₁ : a single crystal study. <i>Journal of Magnetism and Magnetic Materials</i> , 1995 , 148, 397-408	2.8	25
6	Unusual magnetic structures in Ce ₃ Al ₁₁ . <i>Journal of Magnetism and Magnetic Materials</i> , 1995 , 140-144, 1229-1230	2.8	5
5	Magnetization density in Ce ₃ Al ₁₁ . <i>Journal of Physics Condensed Matter</i> , 1995 , 7, 8821-8831	1.8	2
4	Neutron diffraction study of dense-Kondo compound CeNi ₂ Al ₅ . <i>Physica B: Condensed Matter</i> , 1994 , 194-196, 373-374	2.8	2
3	Magnetic Properties and Neutron Diffraction Measurements of Dense-Kondo Compound CeNi ₂ Al ₅ . <i>Journal of the Physical Society of Japan</i> , 1994 , 63, 2349-2358	1.5	18
2	Magnetic structures of Ce-rich compounds Ce ₅ Sn ₃ and Ce ₅ Sn ₄ . <i>Journal of Magnetism and Magnetic Materials</i> , 1992 , 116, 419-431	2.8	6
1	Microstructure of a new ODS Cu _{0.7} wt-%Cr _{0.11} wt-%Zr material produced by a novel powder metallurgical method. <i>Powder Metallurgy</i> , 1-7	1.9	