Norbert Marcel Nemes

List of Publications by Year
in descending order

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104 papers	3,059 citations	218677 26 h-index	175258 52 g-index
105 all docs	105 docs citations	105 times ranked	4798 citing authors

#	Article	IF	Citations
1	SnSe:Kx intermetallic thermoelectric polycrystals prepared by arc-melting. Journal of Materials Science, 2022, 57, 8489-8503.	3.7	6
2	Atomic Structure and Lattice Dynamics of CoSb₃ Skutterudite-Based Thermoelectrics. Chemistry of Materials, 2022, 34, 1213-1224.	6.7	9
3	The structural evolution, optical gap, and thermoelectric properties of the RbPb₂Br₅ layered halide, prepared by mechanochemistry. Journal of Materials Chemistry C, 2022, 10, 6857-6865.	5.5	4
4	Impedance Spectroscopy of Encapsulated Single Graphene Layers. Nanomaterials, 2022, 12, 804.	4.1	0
5	Detailed Structural Features of the Perovskite-Related Halide RbPbI₃ for Solar Cell Applications. Inorganic Chemistry, 2022, 61, 5502-5511.	4.0	7
6	An Implantable Magneto-Responsive Poly(aspartamide) Based Electrospun Scaffold for Hyperthermia Treatment. Nanomaterials, 2022, 12, 1476.	4.1	7
7	Large Enhancement of Critical Current in Superconducting Devices by Gate Voltage. Nano Letters, 2021, 21, 216-221.	9.1	21
8	Structural evolution, optical gap and thermoelectric properties of CH₃NH₃SnBr₃ hybrid perovskite, prepared by mechanochemistry. Materials Advances, 2021, 2, 3620-3628.	5.4	9
9	Strongly reduced lattice thermal conductivity in Sn-doped rare-earth (M) filled skutterudites M_xCo₄Sb_{12â^'y}Sn_y, promoted by Sbâ€“Sn disordering and phase segregation. RSC Advances, 2021, 11, 26421-26431.	3.6	5
10	Metastable Materials Accessed under Moderate Pressure Conditions (P â‰ 3.5 GPa) in a Piston-Cylinder Press. Materials, 2021, 14, 1946.	2.9	8
11	Unveiling the Structural Behavior under Pressure of Filled M_{0.5}Co₄Sb₁₂ (M = K, Sr, La, Ce, and Yb) Thermoelectric Skutterudites. Inorganic Chemistry, 2021, 60, 7413-7421.	4.0	8
12	Non-exponential magnetic relaxation in magnetic nanoparticles for hyperthermia. Journal of Magnetism and Magnetic Materials, 2021, 526, 167682.	2.3	5
13	Structural Features, Anisotropic Thermal Expansion, and Thermoelectric Performance in Bulk Black Phosphorus Synthesized under High Pressure. Inorganic Chemistry, 2020, 59, 14932-14943.	4.0	12
14	High-Performance n-type SnSe Thermoelectric Polycrystal Prepared by Arc-Melting. Cell Reports Physical Science, 2020, 1, 100263.	5.6	23
15	Ultralong Spin Lifetime in Light Alkali Atom Doped Graphene. ACS Nano, 2020, 14, 7492-7501.	14.6	8
16	Direct Transformation of Crystalline MoO3 into Few-Layers MoS2. Materials, 2020, 13, 2293.	2.9	2
17	Tuning ferromagnetism at room temperature by visible light. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 6417-6423.	7.1	15
18	Features of the High-Temperature Structural Evolution of GeTe Thermoelectric Probed by Neutron and Synchrotron Powder Diffraction. Metals, 2020, 10, 48.	2.3	8

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19	Enhanced stability in CH3NH3PbI3 hybrid perovskite from mechano-chemical synthesis: structural, microstructural and optoelectronic characterization. Scientific Reports, 2020, 10, 11228.	3.3	19
20	High thermoelectric performance of rapidly microwave-synthesized Sn_{1â^'Î´}S. Materials Advances, 2020, 1, 845-853.	5.4	8
21	Unveiling the Correlation between the Crystalline Structure of Mâ€Filled CoSb₃ (M = Y, K,) Tj ETQq1 1 0.784314 rgBT /Ove 2020, 30, 2001651.	14.9	31
22	Correlation between Crystal Structure and Thermoelectric Properties of Sr1â^'xTi0.9Nb0.1O3â^'Î´ Ceramics. Crystals, 2020, 10, 100.	2.2	8
23	Evidence of nanostructuring and reduced thermal conductivity in n-type Sb-alloyed SnSe thermoelectric polycrystals. Journal of Applied Physics, 2019, 126, .	2.5	28
24	Substantial thermal conductivity reduction in mischmetal skutterudites Mm_xCo₄Sb₁₂ prepared under high-pressure conditions, due to uneven distribution of the rare-earth elements. Journal of Materials Chemistry C, 2019, 7, 4124-4131.	5.5	21
25	Evidence of anomalous switching of the in-plane magnetic easy axis with temperature in Fe₃O₄ film on SrTiO₃:Nb by ν-MOKE and ferromagnetic resonance. Nanoscale, 2019, 11, 19870-19876.	5.6	3
26	Influence of Nanostructuration on PbTe Alloys Synthesized by Arc-Melting. Materials, 2019, 12, 3783.	2.9	9
27	Structural evolution of a Ge-substituted SnSe thermoelectric material with low thermal conductivity. Journal of Applied Crystallography, 2018, 51, 337-343.	4.5	8
28	Low thermal conductivity in La-filled cobalt antimonide skutterudites with an inhomogeneous filling factor prepared under high-pressure conditions. Journal of Materials Chemistry A, 2018, 6, 118-126.	10.3	30
29	Large Seebeck coefficients in La2NiO4+Î´ with tuned Î´ values. Materials Today: Proceedings, 2018, 5, 10203-10210.	1.8	2
30	Facile preparation of SnSe derivatives in nanostructured polycrystalline form by arc-melting synthesis. Materials Today: Proceedings, 2018, 5, 10218-10226.	1.8	4
31	Nanostructured Thermoelectric Chalcogenides. , 2018, , .		3
32	Thermal Conductivity Reduction by Fluctuation of the Filling Fraction in Filled Cobalt Antimonide Skutterudite Thermoelectrics. ACS Applied Energy Materials, 2018, 1, 6181-6189.	5.1	15
33	Electronic Properties of Airâ€Sensitive Nanomaterials Probed with Microwave Impedance Measurements. Physica Status Solidi (B): Basic Research, 2018, 255, 1800250.	1.5	2
34	Giant microwave absorption in fine powders of superconductors. Scientific Reports, 2018, 8, 11480.	3.3	5
35	Low lattice thermal conductivity in arc-melted GeTe with Ge-deficient crystal structure. Applied Physics Letters, 2018, 113, .	3.3	14
36	Influence of Doping and Nanostructuration on n-Type Bi2(Te0.8Se0.2)3 Alloys Synthesized by Arc Melting. Nanoscale Research Letters, 2017, 12, 47.	5.7	14

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37	Modified magnetic anisotropy at LaCoO3/La0.7Sr0.3MnO3 interfaces. APL Materials, 2017, 5, .	5.1	12
38	Effective anisotropies in magnetic nanowires using the torque method. Journal of Magnetism and Magnetic Materials, 2017, 443, 378-384.	2.3	3
39	Enhanced figure of merit in nanostructured (Bi,Sb)2Te3 with optimized composition, prepared by a straightforward arc-melting procedure. Scientific Reports, 2017, 7, 6277.	3.3	41
40	Cyan titania nanowires: Spectroscopic study of the origin of the self-doping enhanced photocatalytic activity. Catalysis Today, 2017, 284, 52-58.	4.4	10
41	Extra-low thermal conductivity in unfilled CoSb3-Î´ skutterudite synthesized under high-pressure conditions. Applied Physics Letters, 2017, 111, .	3.3	22
42	Structural phase transition in polycrystalline SnSe: a neutron diffraction study in correlation with thermoelectric properties. Journal of Applied Crystallography, 2016, 49, 2138-2144.	4.5	24
43	Strong enhancement of superconductivity at high pressures within the charge-density-wave states of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>2</mml:mn><mml:mi>H</mml:mi><mml:mtext>â^’</mml:mtext></mml:mrow></mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>2</mml:mn><mml:mi>H</mml:mi><mml:mtext>â^’</mml:mtext></mml:mrow></mml:math>-TaS2. Physical Review B, 2016, 93, .	3.2	26
44	Giant Seebeck effect in Ge-doped SnSe. Scientific Reports, 2016, 6, 26774.	3.3	67
45	Nanostructured Bi2Te3 Prepared by a Straightforward Arc-Melting Method. Nanoscale Research Letters, 2016, 11, 142.	5.7	25
46	Charge density wave in layered<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>La</mml:mi><mml:mrow><mml:mn>2</mml:mn><mml:mn>1</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>NiO4 single crystals. Physical Review B, 2015, 92, .	3.2	15
47	Phase separation enhanced magneto-electric coupling in La0.7Ca0.3MnO3/BaTiO3 ultra-thin films. Scientific Reports, 2015, 5, 17926.	3.3	26
48	Record Seebeck coefficient and extremely low thermal conductivity in nanostructured SnSe. Applied Physics Letters, 2015, 106, .	3.3	73
49	Signatures of a Twoâ€Dimensional Ferromagnetic Electron Gas at the La_{0.7}Sr_{0.3}MnO₃/SrTiO₃ Interface Arising From Orbital Reconstruction. Advanced Materials, 2014, 26, 7516-7520.	21.0	23
50	Thin Film Multiferroic Nanocomposites by Ion Implantation. ACS Applied Materials & Interfaces, 2014, 6, 1909-1915.	8.0	12
51	Reversible electric-field control of magnetization at oxide interfaces. Nature Communications, 2014, 5, 4215.	12.8	59
52	Low temperature magnetic transitions of single crystal HoBi. Solid State Communications, 2013, 171, 59-63.	1.9	10
53	Pressure dependence of superconducting critical temperature and upper critical field of 2<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>H</mml:mi></mml:math>-NbS<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2013, 87, .	3.2	63
54	Magnetoelastic coupling in strained La0.7Ca0.3MnO3//BaTiO3 Thin Films. Materials Research Society Symposia Proceedings, 2013, 1587, 1.	0.1	0

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55	Room temperature in-plane âŸ¨100âŸ© magnetic easy axis for Fe3O4/SrTiO3(001):Nb grown by infrared pulsed laser deposition. Journal of Applied Physics, 2013, 114, .	2.5	37
56	Magnetoelastic coupling in La<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.7</mml:mn></mml:mrow></mml:msub></mml:math>Ca<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.3</mml:mn></mml:mrow></mml:msub></mml:math>MnO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow	3.2	7
57	Superconductivity and magnetism on flux-grown single crystals of NiBi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:math>. Physical Review B, 2012, 86, .	3.2	28
58	Ferroelectric substrate effects on the magnetism, magnetotransport, and electroresistance of La<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.7</mml:mn></mml:mrow></mml:msub></mml:math>Ca<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.3</mml:mn></mml:mrow></mml:msub></mml:math>MnO<mml:math xmlns:m	3.2	25
59	Testing the Elliott-Yafet spin-relaxation mechanism in KC8: A model system of biased graphene. Physical Review B, 2012, 85, .	3.2	14
60	Effect of Interface-Induced Exchange Fields on Cuprate-Manganite Spin Switches. Physical Review Letters, 2012, 108, 207205.	7.8	22
61	Magnetite (Fe₃O₄): a new variant of relaxor multiferroic?. Journal of Physics Condensed Matter, 2012, 24, 086007.	1.8	38
62	Magnetoimpedance spectroscopy of epitaxial multiferroic thin films. Physical Review B, 2012, 86, .	3.2	80
63	Electronic and Magnetic Reconstructions in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>La</mml:mi><mml:mn>0.7</mml:mn></mml:msub><mml:msub><mml:mi>Sr</mml:mi><mml:mn	7.8	84
64	Exotic magnetic anisotropy map in epitaxial La<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.7</mml:mn></mml:mrow></mml:msub></mml:math>Ca<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.3</mml:mn></mml:mrow></mml:msub></mml:math>MnO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow	3.2	15
65	Transition from Pauli-paramagnetism to ferromagnetism in CaCu3(Ru4â^'xMnx)O12 (0 â‰¤ x â‰¤ 3) perovskites. Journal of Applied Physics, 2011, 109, 123914.	2.5	10
66	Density of states deduced from ESR measurements on lowâ€dimensional nanostructures; benchmarks to identify the ESR signals of graphene and SWCNTs. Physica Status Solidi (B): Basic Research, 2011, 248, 2688-2691.	1.5	16
67	Tailoring Interface Structure in Highly Strained YSZ/STO Heterostructures. Advanced Materials, 2011, 23, 5268-5274.	21.0	36
68	Anisotropic magnetotransport in SrTiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:math>surface electron gases generated by Ar<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow /><mml:mrow><mml:mo>+</mml:mo></mml:mro	3.2	40
69	Symmetrical interfacial reconstruction and magnetism in La0.7Ca0.3MnO3/YBa2Cu3O7/La0.7Ca0.3MnO3heterostructures. Physical Review B, 2011, 84, .	3.2	29
70	â€œCharge Leakageâ€•at LaMnO₃/SrTiO₃ Interfaces. Advanced Materials, 2010, 22, 627-632.	21.0	113
71	Investigation of hydrogenated HiPCo nanotubes by infrared spectroscopy. Physica Status Solidi (B): Basic Research, 2010, 247, 2855-2858.	1.5	2
72	Magnetic and transport properties in ordered arrays of permalloy antidots and thin films. Journal of Applied Physics, 2010, 107, 083918.	2.5	12

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73	Directionally controlled superconductivity in ferromagnet/superconductor/ferromagnet trilayers with biaxial easy axes. Physical Review B, 2010, 81, .	3.2	15
74	Exchange-bias-modulated inverse superconducting spin switch inCoO/Co/YBa2Cu3O7â^'Î'/La0.7Ca0.3MnO3thin film hybrids. Physical Review B, 2010, 81, .	3.2	5
75	Magnetic memory based on La0.7Ca0.3MnO3/YBa2Cu3O7/La0.7Ca0.3MnO3 ferromagnet/superconductor hybrid structures. Applied Physics Letters, 2010, 97, 032501.	3.3	16
76	A Figure of Merit for Transparent Conducting Nanotube Films. Materials Research Society Symposia Proceedings, 2009, 1204, 1.	0.1	0
77	Identifying the electron spin resonance of conduction electrons in alkali doped SWCNTs. Physica Status Solidi (B): Basic Research, 2009, 246, 2760-2763.	1.5	15
78	Orientational Ordering and Low-Temperature Libration in the Rotorâ'Stator Cocrystals of Fullerenes and Cubane. Journal of Physical Chemistry B, 2009, 113, 2042-2049.	2.6	14
79	Electron spin resonance in alkali doped SWCNTs. Physica Status Solidi (B): Basic Research, 2008, 245, 1975-1978.	1.5	10
80	High frequency electron spin resonance study of peapods. Physica Status Solidi (B): Basic Research, 2008, 245, 2029-2033.	1.5	5
81	Thickness Dependent Magnetic Anisotropy of Ultrathin LCMO Epitaxial Thin Films. IEEE Transactions on Magnetics, 2008, 44, 2926-2929.	2.1	13
82	Origin of the inverse spin-switch behavior in manganite/cuprate/manganite trilayers. Physical Review B, 2008, 78, .	3.2	47
83	Spin-dependent magnetoresistance of ferromagnet/superconductor/ferromagnetLa0.7Ca0.3MnO3âˆ•YBa2Cu3O7â^'Î'âˆ•La0.7Ca0.3MnO3trilayers. Physical Review B, 2007, 75, .	3.2	36
84	Colossal electroresistance without colossal magnetoresistance in La0.9Sr0.1MnO3. Applied Physics Letters, 2007, 90, 222502.	3.3	19
85	Publisher's Note: Spin-dependent magnetoresistance of ferromagnet/superconductor/ferromagnetLa0.7Ca0.3MnO3âˆ•YBa2Cu3O7â^'Î'âˆ•La0.7Ca0.3MnO3trilayers [Phys. Rev. B75, 054501 (2007)]. Physical Review B, 2007, 75, .	3.2	1
86	Spin dependent transport at oxide La0.7Ca0.3MnO3/YBa2Cu3O7 ferromagnet/superconductor interfaces. Journal of the European Ceramic Society, 2007, 27, 3967-3970.	5.7	4
87	Magnetoresistance in La0.7Ca0.3MnO3â€"YBa2Cu3O7 F/S/F trilayers. Journal of Magnetism and Magnetic Materials, 2007, 316, e745-e748.	2.3	1
88	Electron spin resonance of single-walled carbon nanotubes and related structures. Physica Status Solidi (B): Basic Research, 2006, 243, 3106-3110.	1.5	34
89	States of water in hydrated C3S (tricalcium silicate) as a function of relative humidity. Journal of Materials Research, 2006, 21, 2516-2523.	2.6	15
90	Phase segregation on the nanoscale inNa2C60. Physical Review B, 2006, 74, .	3.2	16

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91	Static and dynamic Jahn-Teller effect in the alkali metal fulleride saltsA4C60(A=K,Rb,Cs). Physical Review B, 2006, 73, .	3.2	33
92	Nanosegregation in Na2C60. AIP Conference Proceedings, 2005, , .	0.4	0
93	Publisher's Note: Charge transfer and Fermi level shift inp-doped single-walled carbon nanotubes [Phys. Rev. B71, 205423 (2005)]. Physical Review B, 2005, 71, .	3.2	0
94	Charge transfer and Fermi level shift inp-doped single-walled carbon nanotubes. Physical Review B, 2005, 71, .	3.2	205
95	Ordered low-temperature structure inK4C60detected by infrared spectroscopy. Physical Review B, 2002, 65, .	3.2	11
96	Electronic and structural properties of alkali doped SWNT. AIP Conference Proceedings, 2002, , .	0.4	1
97	Single Wall Carbon Nanotubes Filled with Metallocenes: a First Example of Non-Fullerene Peapods. Materials Research Society Symposia Proceedings, 2001, 706, 1.	0.1	4
98	Thermal Properties of Single-Walled Carbon Nanotubes. Materials Research Society Symposia Proceedings, 2000, 633, 1711.	0.1	4
99	Structure and electronic properties of potassium-doped single-wall carbon nanotubes. Physical Review B, 2000, 62, R4845-R4848.	3.2	109
100	Conduction-electron spin resonance in the superconductorK3C60. Physical Review B, 2000, 61, 7118-7121.	3.2	23
101	Electrical and thermal transport properties of magnetically aligned single wall carbon nanotube films. Applied Physics Letters, 2000, 77, 666-668.	3.3	775
102	Antiferromagnetic Resonance in the Linear Chain Conducting PolymersRbC60andCsC60. Physical Review Letters, 1997, 79, 2718-2721.	7.8	57
103	Magnetic Coupling in La_{0.7}Ca_{0.3}MnO₃/YBa₂Cu<sub>3 Trilayers. Defect and Diffusion Forum, 0, 289-292, 303-309.	0.4	0
104	Nanostructured State-of-the-Art Thermoelectric Materials Prepared by Straight-Forward Arc-Melting Method. , 0, , .		2