

Norbert Marcel Nemes

List of Publications by Year in descending order

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104
papers

3,059
citations

218677

26
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175258

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105
all docs

105
docs citations

105
times ranked

4798
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrical and thermal transport properties of magnetically aligned single wall carbon nanotube films. Applied Physics Letters, 2000, 77, 666-668.	3.3	775
2	Charge transfer and Fermi level shift in p-doped single-walled carbon nanotubes. Physical Review B, 2005, 71, .	3.2	205
3	Charge Leakage at LaMnO ₃ /SrTiO ₃ Interfaces. Advanced Materials, 2010, 22, 627-632.	21.0	113
4	Structure and electronic properties of potassium-doped single-wall carbon nanotubes. Physical Review B, 2000, 62, R4845-R4848.	3.2	109
5	Strong enhancement of superconductivity at high pressures within the charge-density-wave states of $2H\text{-NbSe}_2$. Physical Review Letters, 2016, 116, 087001.	3.3	86
6	Electronic and Magnetic Reconstructions in $La_{0.7}Sb_{0.3}$ Surface: A Case of Enhanced Interlayer Coupling Controlled by the Interface. Physical Review Letters, 2011, 106, 147205.	3.3	86
7	Magnetoimpedance spectroscopy of epitaxial multiferroic thin films. Physical Review B, 2012, 86, .	3.2	80
8	Record Seebeck coefficient and extremely low thermal conductivity in nanostructured SnSe. Applied Physics Letters, 2015, 106, .	3.3	73
9	Giant Seebeck effect in Ge-doped SnSe. Scientific Reports, 2016, 6, 26774.	3.3	67
10	Pressure dependence of superconducting critical temperature and upper critical field of $2H\text{-NbS}_2$. Physical Review B, 2013, 87, .	3.2	63
11	Reversible electric-field control of magnetization at oxide interfaces. Nature Communications, 2014, 5, 4215.	12.8	59
12	Antiferromagnetic Resonance in the Linear Chain Conducting Polymers RbC ₆₀ and CsC ₆₀ . Physical Review Letters, 1997, 79, 2718-2721.	7.8	57
13	Origin of the inverse spin-switch behavior in manganite/cuprate/manganite trilayers. Physical Review B, 2008, 78, .	3.2	47
14	Enhanced figure of merit in nanostructured (Bi,Sb) ₂ Te ₃ with optimized composition, prepared by a straightforward arc-melting procedure. Scientific Reports, 2017, 7, 6277.	3.3	41
15	Surface electron gases generated by Ar ₃ surface. Physical Review B, 2013, 87, .	3.2	40
16	Magnetite (Fe ₃ O ₄): a new variant of relaxor multiferroic?. Journal of Physics Condensed Matter, 2012, 24, 086007.	1.8	38
17	Room temperature in-plane $\sim 100^\circ\text{C}$ magnetic easy axis for Fe ₃ O ₄ /SrTiO ₃ (001):Nb grown by infrared pulsed laser deposition. Journal of Applied Physics, 2013, 114, .	2.5	37
18	Spin-dependent magnetoresistance of ferromagnet/superconductor/ferromagnet La _{0.7} Ca _{0.3} MnO ₃ /YBa ₂ Cu ₃ O ₇ /La _{0.7} Ca _{0.3} MnO ₃ trilayers. Physical Review B, 2007, 75, .	3.2	36

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19	Tailoring Interface Structure in Highly Strained YSZ/STO Heterostructures. <i>Advanced Materials</i> , 2011, 23, 5268-5274.	21.0	36
20	Electron spin resonance of single-walled carbon nanotubes and related structures. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 3106-3110.	1.5	34
21	Static and dynamic Jahn-Teller effect in the alkali metal fulleride salts A_4C_{60} (A=K,Rb,Cs). <i>Physical Review B</i> , 2006, 73, .	3.2	33
22	Unveiling the Correlation between the Crystalline Structure of $M\text{-filled CoSb}_3$ (M = Y, K), <i>Journal of Applied Physics</i> , 2020, 30, 2001651.	14.9	31
23	Low thermal conductivity in La-filled cobalt antimonide skutterudites with an inhomogeneous filling factor prepared under high-pressure conditions. <i>Journal of Materials Chemistry A</i> , 2018, 6, 118-126.	10.3	30
24	Symmetrical interfacial reconstruction and magnetism in $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3/\text{YBa}_2\text{Cu}_3\text{O}_7/\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ heterostructures. <i>Physical Review B</i> , 2011, 84, .	3.2	29
25	Superconductivity and magnetism on flux-grown single crystals of NiBi_3 . <i>Physical Review B</i> , 2013, 88, .	3.2	28
26	Evidence of nanostructuring and reduced thermal conductivity in n-type Sb-alloyed SnSe thermoelectric polycrystals. <i>Journal of Applied Physics</i> , 2019, 126, .	2.5	28
27	Phase separation enhanced magneto-electric coupling in $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3/\text{BaTiO}_3$ ultra-thin films. <i>Scientific Reports</i> , 2015, 5, 17926.	3.3	26
28	Ferroelectric substrate effects on the magnetism, magnetotransport, and electroresistance of $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3/\text{CaMnO}_3$ heterostructures. <i>Physical Review B</i> , 2011, 84, .	3.2	25
29	Nanostructured Bi_2Te_3 Prepared by a Straightforward Arc-Melting Method. <i>Nanoscale Research Letters</i> , 2016, 11, 142.	5.7	25
30	Structural phase transition in polycrystalline SnSe: a neutron diffraction study in correlation with thermoelectric properties. <i>Journal of Applied Crystallography</i> , 2016, 49, 2138-2144.	4.5	24
31	Conduction-electron spin resonance in the superconductor K_3C_{60} . <i>Physical Review B</i> , 2000, 61, 7118-7121.	3.2	23
32	Signatures of a Two-Dimensional Ferromagnetic Electron Gas at the $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3/\text{SrTiO}_3$ Interface Arising From Orbital Reconstruction. <i>Advanced Materials</i> , 2014, 26, 7516-7520.	21.0	23
33	High-Performance n-type SnSe Thermoelectric Polycrystal Prepared by Arc-Melting. <i>Cell Reports Physical Science</i> , 2020, 1, 100263.	5.6	23
34	Effect of Interface-Induced Exchange Fields on Cuprate-Manganite Spin Switches. <i>Physical Review Letters</i> , 2012, 108, 207205.	7.8	22
35	Extra-low thermal conductivity in unfilled CoSb_3 skutterudite synthesized under high-pressure conditions. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	22
36	Substantial thermal conductivity reduction in mischmetal skutterudites $\text{Mm}_x\text{Co}_4\text{Sb}_{12}$ prepared under high-pressure conditions, due to uneven distribution of the rare-earth elements. <i>Journal of Materials Chemistry C</i> , 2019, 7, 4124-4131.	5.5	21

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37	Large Enhancement of Critical Current in Superconducting Devices by Gate Voltage. Nano Letters, 2021, 21, 216-221.	9.1	21
38	Colossal electroresistance without colossal magnetoresistance in La _{0.9} Sr _{0.1} MnO ₃ . Applied Physics Letters, 2007, 90, 222502.	3.3	19
39	Enhanced stability in CH ₃ NH ₃ PbI ₃ hybrid perovskite from mechano-chemical synthesis: structural, microstructural and optoelectronic characterization. Scientific Reports, 2020, 10, 11228.	3.3	19
40	Phase segregation on the nanoscale in Na ₂ C ₆₀ . Physical Review B, 2006, 74, .	3.2	16
41	Magnetic memory based on La _{0.7} Ca _{0.3} MnO ₃ /YBa ₂ Cu ₃ O ₇ /La _{0.7} Ca _{0.3} MnO ₃ ferromagnet/superconductor hybrid structures. Applied Physics Letters, 2010, 97, 032501.	3.3	16
42	Density of states deduced from ESR measurements on low-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
43	States of water in hydrated C ₃ S (tricalcium silicate) as a function of relative humidity. Journal of Materials Research, 2006, 21, 2516-2523.	2.6	15
44	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
45	Directionally controlled superconductivity in ferromagnet/superconductor/ferromagnet trilayers with biaxial easy axes. Physical Review B, 2010, 81, 020407.	3.2	15
46	Exotic magnetic anisotropy map in epitaxial La _{0.7} Ca _{0.3} MnO ₃ /YBa ₂ Cu ₃ O ₇ /La _{0.7} Ca _{0.3} MnO ₃ trilayers. Physical Review B, 2010, 81, 020407.	3.2	15
47	Charge density wave in layered La _{0.7} Ca _{0.3} MnO ₃ /YBa ₂ Cu ₃ O ₇ /La _{0.7} Ca _{0.3} MnO ₃ trilayers. Physical Review B, 2015, 92, .	3.2	15
48	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
49	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
50	Orientational Ordering and Low-Temperature Libration in the Rotor-Stator Cocrystals of Fullerenes and Cubane. Journal of Physical Chemistry B, 2009, 113, 2042-2049.	2.6	14
51	Testing the Elliott-Yafet spin-relaxation mechanism in KC ₈ : A model system of biased graphene. Physical Review B, 2012, 85, .	3.2	14
52	Influence of Doping and Nanostructuring on n-Type Bi ₂ (Te _{0.8} Se _{0.2}) ₃ Alloys Synthesized by Arc Melting. Nanoscale Research Letters, 2017, 12, 47.	5.7	14
53	Low lattice thermal conductivity in arc-melted GeTe with Ge-deficient crystal structure. Applied Physics Letters, 2018, 113, .	3.3	14
54	Thickness Dependent Magnetic Anisotropy of Ultrathin LCMO Epitaxial Thin Films. IEEE Transactions on Magnetics, 2008, 44, 2926-2929.	2.1	13

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55	Magnetic and transport properties in ordered arrays of permalloy antidots and thin films. <i>Journal of Applied Physics</i> , 2010, 107, 083918.	2.5	12
56	Thin Film Multiferroic Nanocomposites by Ion Implantation. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 1909-1915.	8.0	12
57	Modified magnetic anisotropy at LaCoO ₃ /La _{0.7} Sr _{0.3} MnO ₃ interfaces. <i>APL Materials</i> , 2017, 5, .	5.1	12
58	Structural Features, Anisotropic Thermal Expansion, and Thermoelectric Performance in Bulk Black Phosphorus Synthesized under High Pressure. <i>Inorganic Chemistry</i> , 2020, 59, 14932-14943.	4.0	12
59	Ordered low-temperature structure in K ₄ C ₆ O detected by infrared spectroscopy. <i>Physical Review B</i> , 2002, 65, .	3.2	11
60	Electron spin resonance in alkali doped SWCNTs. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 1975-1978.	1.5	10
61	Transition from Pauli-paramagnetism to ferromagnetism in CaCu ₃ (Ru _{4-x} Mn _x)O ₁₂ (0 ≤ x ≤ 3) perovskites. <i>Journal of Applied Physics</i> , 2011, 109, 123914.	2.5	10
62	Low temperature magnetic transitions of single crystal HoBi. <i>Solid State Communications</i> , 2013, 171, 59-63.	1.9	10
63	Cyan titania nanowires: Spectroscopic study of the origin of the self-doping enhanced photocatalytic activity. <i>Catalysis Today</i> , 2017, 284, 52-58.	4.4	10
64	Influence of Nanostructuring on PbTe Alloys Synthesized by Arc-Melting. <i>Materials</i> , 2019, 12, 3783.	2.9	9
65	Structural evolution, optical gap and thermoelectric properties of CH ₃ NH ₃ SnBr ₃ hybrid perovskite, prepared by mechanochemistry. <i>Materials Advances</i> , 2021, 2, 3620-3628.	5.4	9
66	Atomic Structure and Lattice Dynamics of CoSb ₃ Skutterudite-Based Thermoelectrics. <i>Chemistry of Materials</i> , 2022, 34, 1213-1224.	6.7	9
67	Structural evolution of a Ge-substituted SnSe thermoelectric material with low thermal conductivity. <i>Journal of Applied Crystallography</i> , 2018, 51, 337-343.	4.5	8
68	Ultralong Spin Lifetime in Light Alkali Atom Doped Graphene. <i>ACS Nano</i> , 2020, 14, 7492-7501.	14.6	8
69	Features of the High-Temperature Structural Evolution of GeTe Thermoelectric Probed by Neutron and Synchrotron Powder Diffraction. <i>Metals</i> , 2020, 10, 48.	2.3	8
70	High thermoelectric performance of rapidly microwave-synthesized Sn _{1-x} S. <i>Materials Advances</i> , 2020, 1, 845-853.	5.4	8
71	Correlation between Crystal Structure and Thermoelectric Properties of Sr _{1-x} Ti _{0.9} Nb _{0.1} O ₃ Ceramics. <i>Crystals</i> , 2020, 10, 100.	2.2	8
72	Metastable Materials Accessed under Moderate Pressure Conditions (P ≤ 3.5 GPa) in a Piston-Cylinder Press. <i>Materials</i> , 2021, 14, 1946.	2.9	8

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73	Unveiling the Structural Behavior under Pressure of Filled $M_{0.5}Co_4Sb_{12}$ (M = K, Sr, La, Ce, and Yb) Thermoelectric Magnetoelastic coupling. <i>Chaos, Solitons & Fractals</i> , 2021, 147, 110747. http://www.w3.org/1998/Math/MathML	4.0	8
74	$Ca_{0.7}MnO_3$ thin film hybrids. <i>Physical Review B</i> , 2010, 81, .	3.2	7
75	Detailed Structural Features of the Perovskite-Related Halide $RbPb_3$ for Solar Cell Applications. <i>Inorganic Chemistry</i> , 2022, 61, 5502-5511.	4.0	7
76	An Implantable Magneto-Responsive Poly(aspartamide) Based Electrospun Scaffold for Hyperthermia Treatment. <i>Nanomaterials</i> , 2022, 12, 1476.	4.1	7
77	SnSe:Kx intermetallic thermoelectric polycrystals prepared by arc-melting. <i>Journal of Materials Science</i> , 2022, 57, 8489-8503.	3.7	6
78	High frequency electron spin resonance study of peapods. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 2029-2033.	1.5	5
79	Exchange-bias-modulated inverse superconducting spin switch in $CoO/Co/YBa_2Cu_3O_7$ /La $_{0.7}$ Ca $_{0.3}$ MnO $_3$ thin film hybrids. <i>Physical Review B</i> , 2010, 81, .	3.2	5
80	Giant microwave absorption in fine powders of superconductors. <i>Scientific Reports</i> , 2018, 8, 11480.	3.3	5
81	Strongly reduced lattice thermal conductivity in Sn-doped rare-earth (M) filled skutterudites $M_xCo_4Sb_{12}ySn_y$, promoted by Sb \leftrightarrow Sn disordering and phase segregation. <i>RSC Advances</i> , 2021, 11, 26421-26431.	3.6	5
82	Non-exponential magnetic relaxation in magnetic nanoparticles for hyperthermia. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 526, 167682.	2.3	5
83	Thermal Properties of Single-Walled Carbon Nanotubes. <i>Materials Research Society Symposia Proceedings</i> , 2000, 633, 1711.	0.1	4
84	Single Wall Carbon Nanotubes Filled with Metallocenes: a First Example of Non-Fullerene Peapods. <i>Materials Research Society Symposia Proceedings</i> , 2001, 706, 1.	0.1	4
85	Spin dependent transport at oxide La $_{0.7}$ Ca $_{0.3}$ MnO $_3$ /YBa $_2$ Cu $_3$ O $_7$ ferromagnet/superconductor interfaces. <i>Journal of the European Ceramic Society</i> , 2007, 27, 3967-3970.	5.7	4
86	Facile preparation of SnSe derivatives in nanostructured polycrystalline form by arc-melting synthesis. <i>Materials Today: Proceedings</i> , 2018, 5, 10218-10226.	1.8	4
87	The structural evolution, optical gap, and thermoelectric properties of the $RbPb_2Br_5$ layered halide, prepared by mechanochemistry. <i>Journal of Materials Chemistry C</i> , 2022, 10, 6857-6865.	5.5	4
88	Effective anisotropies in magnetic nanowires using the torque method. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 443, 378-384.	2.3	3
89	Nanostructured Thermoelectric Chalcogenides. , 2018, , .		3
90	Evidence of anomalous switching of the in-plane magnetic easy axis with temperature in Fe_3O_4 film on $SrTiO_3:Nb$ by v-MOKE and ferromagnetic resonance. <i>Nanoscale</i> , 2019, 11, 19870-19876.	5.6	3

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91	Investigation of hydrogenated HiPCo nanotubes by infrared spectroscopy. Physica Status Solidi (B): Basic Research, 2010, 247, 2855-2858.	1.5	2
92	Nanostructured State-of-the-Art Thermoelectric Materials Prepared by Straight-Forward Arc-Melting Method. , 0, , .		2
93	Large Seebeck coefficients in $\text{La}_2\text{NiO}_4+\hat{\nu}$ with tuned $\hat{\nu}$ values. Materials Today: Proceedings, 2018, 5, 10203-10210.	1.8	2
94	Electronic Properties of Air-sensitive Nanomaterials Probed with Microwave Impedance Measurements. Physica Status Solidi (B): Basic Research, 2018, 255, 1800250.	1.5	2
95	Direct Transformation of Crystalline MoO_3 into Few-Layers MoS_2 . Materials, 2020, 13, 2293.	2.9	2
96	Electronic and structural properties of alkali doped SWNT. AIP Conference Proceedings, 2002, , .	0.4	1
97	Publisher's Note: Spin-dependent magnetoresistance of ferromagnet/superconductor/ferromagnet $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3/\text{YBa}_2\text{Cu}_3\text{O}_7/\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ trilayers [Phys. Rev. B 75, 054501 (2007)]. Physical Review B, 2007, 75, .	3.2	1
98	Magnetoresistance in $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3/\text{YBa}_2\text{Cu}_3\text{O}_7$ F/S/F trilayers. Journal of Magnetism and Magnetic Materials, 2007, 316, e745-e748.	2.3	1
99	Nanosegregation in $\text{Na}_2\text{C}_6\text{O}$. AIP Conference Proceedings, 2005, , .	0.4	0
100	Publisher's Note: Charge transfer and Fermi level shift in p-doped single-walled carbon nanotubes [Phys. Rev. B 71, 205423 (2005)]. Physical Review B, 2005, 71, .	3.2	0
101	A Figure of Merit for Transparent Conducting Nanotube Films. Materials Research Society Symposia Proceedings, 2009, 1204, 1.	0.1	0
102	Magnetic Coupling in $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3/\text{YBa}_2\text{Cu}_3\text{O}_7$ Trilayers. Defect and Diffusion Forum, 0, 289-292, 303-309.		
103	Magnetoelastic coupling in strained $\text{La}_{0.7}\text{Ca}_{0.3}\text{MnO}_3/\text{BaTiO}_3$ Thin Films. Materials Research Society Symposia Proceedings, 2013, 1587, 1.	0.1	0
104	Impedance Spectroscopy of Encapsulated Single Graphene Layers. Nanomaterials, 2022, 12, 804.	4.1	0