

# Agustinus Agung Nugroho

## List of Publications by Year in descending order

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125  
papers

3,375  
citations

201674

27  
h-index

149698

56  
g-index

126  
all docs

126  
docs citations

126  
times ranked

4026  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for magnetic Weyl fermions in a correlated metal. Nature Materials, 2017, 16, 1090-1095.	27.5	450
2	Giant anomalous Nernst effect and quantum-critical scaling in a ferromagnetic semimetal. Nature Physics, 2018, 14, 1119-1124.	16.7	366
3	Temperature-induced magnetization reversal in a YVO3 single crystal. Nature, 1998, 396, 441-444.	27.8	276
4	Colossal dielectric constant up to gigahertz at room temperature. Applied Physics Letters, 2009, 94, .	3.3	178
5	Magnetic properties of YVO3 single crystals. Physical Review B, 2000, 62, 6577-6586.	3.2	148
6	Transition between Orbital Orderings in YVO3. Physical Review Letters, 2001, 87, 245501.	7.8	120
7	Raman scattering from phonons and magnons in RFe3(BO3)4. Physical Review B, 2006, 74, .	3.2	118
8	Spin-Orbital Short-Range Order on a Honeycomb-Based Lattice. Science, 2012, 336, 559-563.	12.6	116
9	Neutron diffraction, x-ray diffraction, and specific heat studies of orbital ordering in YVO3. Physical Review B, 2002, 65, .	3.2	107
10	Magnetodielectric coupling in frustrated spin systems: the spinels $M\text{Cr}_2\text{O}_4$ ( $M = \text{Ti, Eu, Gd, Tb, Dy, Ho, Er, Yb, Lu}$ ) and $\text{MnCr}_2\text{O}_4$ . Physical Review B, 2011, 83, .	1.8	96
11	Magnetolectric coupling in $\text{MnTiO}_3$ . Physical Review B, 2011, 83, .	3.2	96
12	Enhancing the magnetolectric coupling in $\text{YMnO}_3$ by Ga doping. Physical Review B, 2007, 75, .	3.2	74
13	Orbital-ordering-induced phase transition in $\text{LaVO}_3$ and $\text{CeVO}_3$ . Physical Review B, 2003, 67, .	3.2	61
14	Structural, electronic, and magneto-optical properties of YVO3. Physical Review B, 2004, 69, .	3.2	59
15	Anomalous Nernst effect in a microfabricated thermoelectric element made of chiral antiferromagnet $\text{Mn}_3\text{Sn}$ . Applied Physics Letters, 2017, 111, .	3.3	38
16	Ferroelectric displacements in multiferroic $\text{Y}(\text{Mn,Ga})\text{O}_3$ . Physical Review B, 2007, 75, .	3.2	37
17	Ultrafast optical spectroscopy of the lowest energy excitations in the Mott insulator compound $\text{YVO}_3$ : Evidence for exceptionally high orbital moment induced by local distortions. Physical Review B, 2014, 89, .	3.2	37
18	Spectroscopic evidence for exceptionally high orbital moment induced by local distortions in $\text{CoVO}_6$ . Physical Review B, 2014, 89, .	3.2	37

#	ARTICLE	IF	CITATIONS
19	High-field recovery of the undistorted triangular lattice in the frustrated metamagnet $\text{CuFeO}$ . Physical Review B, 2009, 80, .	3.2	36
20	Spin dynamics in a weakly itinerant magnet from $^{29}\text{Si}$ NMR in MnSi. Physical Review B, 2007, 75, .	3.2	35
21	Highly Anisotropic Magnon Dispersion in $\text{CaMn}_2\text{O}_7$ : Evidence for Strong Spin Orbit Coupling. Physical Review Letters, 2015, 115, 247201.	7.8	34
22	Aurivillius phases of $\text{PbBi}_4\text{Tl}_4\text{O}_{15}$ doped with $\text{Mn}^{3+}$ synthesized by molten salt technique: Structure, dielectric, and magnetic properties. Journal of Solid State Chemistry, 2011, 184, 1318-1323.	2.9	33
23	Deciphering the Interface of a High Voltage (5 V) Li-ion Battery Containing Additive-Assisted Sulfolane-Based Electrolyte. Small Methods, 2019, 3, 1900546.	8.6	33
24	Electronic structure of MnSi: The role of electron-electron interactions. Physical Review B, 2006, 73, .	3.2	30
25	Crossing the Gap from p- to n-Type Doping: Nature of the States near the Chemical Potential in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ and $\text{Nd}_{2-x}\text{Ce}_x\text{CuO}_4$ . Physical Review Letters, 2003, 90, 247005.	7.8	29
26	Relaxor ferroelectric behavior in Ca-doped $\text{TbMnO}_3$ . Physical Review B, 2008, 78, .	3.2	29
27	$\text{VO}$		

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37	Revealing the Real Size of a Porphyrin Molecule with Quantum Confinement Probing via Temperature-Dependent Photoluminescence Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2020, 124, 2672-2682.	2.5	18
38	Magnetic anisotropy of large floating $\text{CuO}$ zone-grown single crystals of $\text{SrRuO}_3$ . <i>Crystal Research and Technology</i> , 2016, 51, 299-305.	1.3	17
39	Dynamics of photo-excited electrons in magnetically ordered $\text{TbMnO}_3$ . <i>Journal of Physics Condensed Matter</i> , 2013, 25, 116007.	1.8	16
40	Anisotropic lattice dynamics and intermediate-phase magnetism in delafossite $\text{CuFeO}_2$ . <i>Physical Review B</i> , 2015, 92, .	3.2	16
41	Electronic signature of the vacancy ordering in $\text{NbO}(\text{Nb}_3\text{O}_3)$ . <i>Physical Review B</i> , 2017, 96, .	3.2	16
42	Magnetic shape-memory effect in $\text{SrRuO}_3$ . <i>Physical Review B</i> , 2017, 96, .	3.2	15
43	Infrared study of crystal-field excitations in $\text{Nd}_{2-x}\text{Ce}_x\text{CuO}_4$ . <i>Physical Review B</i> , 2000, 61, 12882-12887.	3.2	13
44	Intra- and inter-chain polaron diffusion in regio-random polythiophene studied by muon spin relaxation. <i>Physica B: Condensed Matter</i> , 2010, 405, S381-S383.	2.7	13
45	Layered $\text{Pr}$ $\text{Ca}_{0.5}\text{Mn}_{1.5}\text{O}_4$ . <i>Physical Review B</i> , 2000, 61, 12882-12887.	3.2	13
46	Reversible magnetization of a $\text{Nd}_{1.85}\text{Ce}_{0.15}\text{CuO}_4$ single crystal. <i>Physical Review B</i> , 1999, 60, 15384-15387.	3.2	12
47	Cross-type orbital ordering in the layered hybrid organic-inorganic compound $\text{Pr}_2\text{Cu}_2\text{O}_7$ .		

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55	Mn-dopant-induced effects in $Zn_{1-x}Mn_xO$ compounds. Journal of Physics Condensed Matter, 2007, 19, 476214.	1.8	9
56	$^{151}Sm$ SR Study of Charge Carrier Diffusion in Regioregular Poly(3-Butylthiophene-2,5-Diyl). Physics Procedia, 2012, 30, 97-100.	1.2	9
57	Vortex state in $Nd_{1.85}Ce_{0.15}CuO_4$ single crystal. Physical Review B, 1999, 60, 15379-15383.	3.2	8
58	Electrons, holes, and spin in $Nd_{2-x}Ce_xCuO_4$ . Physical Review B, 2003, 67, .	3.2	8
59	Lattice effects in YVO <sub>3</sub> single crystal. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 428-430.	2.3	8
60	Spin-density-wave ordering in $Ca_{0.5}Sr_{1.5}RuO_4$ studied by neutron scattering. Physical Review B, 2014, 89, .	3.2	8
61	The effect of the A-Site cation on the structural transformations in $ABi_4Ti_4O_{15}$ (A= Ba, Sr): Raman scattering studies. Journal of Solid State Chemistry, 2020, 283, 121131.	2.9	8
62	Different roles of anisotropy and disorder on the vortex matter of $Bi_2Sr_2CaCu_2O_8$ single crystal. Physica C: Superconductivity and Its Applications, 2002, 378-381, 479-482.	1.2	7
63	NMR Evidence for a Two-Step Phase Separation in $Nd_{1.85}Ce_{0.15}CuO_4$ . Physical Review Letters, 2004, 93, 037002.	7.8	7
64	Correlation between lattice vibrations with charge, orbital, and spin ordering in the layered manganite $Pr_{0.5}Mn_{0.5}O_2$ . Physical Review B, 2015, 92, .	3.2	7
65	Scanning tunneling microscopy on cleaved $Mn_3Sn(0001)$ surface. Scientific Reports, 2019, 9, 9677.	3.3	7
66	Peak effects and the solid vortex phase of $aT^*$ -phase $SmLa_{0.8}Sr_{0.2}CuO_4$ single crystal. Physical Review B, 2001, 64, .	3.2	6
67	Fishtail effect and the superconducting phase diagram of $La_{1.6-x}Nd_{0.4}Sr_xCuO_4$ single crystal. Physica C: Superconductivity and Its Applications, 2002, 378-381, 541-545.	1.2	6
68	Doping and field effects on the lowest Kramers doublet splitting in $La_{1.6-x}Nd_{0.4}Sr_xCuO_4$ single crystal. Physica C: Superconductivity and Its Applications, 2003, 392-396, 207-212.	1.2	6
69	Field and temperature dependent charge transport characteristics in regio-regular Poly(3-octylthiophene-2,5-diyl) studied by Muon Spin relaxation. Journal of Physics: Conference Series, 2010, 225, 012003.	0.4	6
70	A comparative Raman study between $YbVO_3$ and $YVO_3$ . Journal of Physics: Conference Series, 2010, 200, 032025.	0.4	6
71	Measurement of Spin Dynamics in a Layered Nickelate Using X-Ray Photon Correlation Spectroscopy: Evidence for Intrinsic Destabilization of Incommensurate Stripes at Low Temperatures. Physical Review Letters, 2021, 127, 057001.	7.8	6
72	Variation of vortex-glass dynamics and critical region with oxygen content in $Bi_2Sr_2CaCu_2O_8$ single crystal. Physica C: Superconductivity and Its Applications, 2001, 357-360, 617-620.	1.2	5

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73	Anisotropy of the neodymium-copper exchange interaction in Nd <sub>2</sub> CuO <sub>4</sub> . Journal of Magnetism and Magnetic Materials, 2001, 226-230, 973-975.	2.3	5
74	Lattice effects in HoVO <sub>3</sub> single crystal. Journal of Magnetism and Magnetic Materials, 2007, 316, e692-e694.	2.3	5
75	Micro-Raman study of orbital phonon coupling in YbVO <sub>3</sub> . Journal of Raman Spectroscopy, 2012, 43, 127-130.	2.5	5
76	Effects of charge-orbital order-disorder phenomena on the unoccupied electronic states in the single-layered half-doped Pr <sub>1-x</sub> Ca <sub>x</sub> MnO <sub>3</sub> . Journal of Magnetism and Magnetic Materials, 2007, 316, e692-e694.	3.2	5
77	Optical Absorption Spectra of Mn <sub>2</sub> Si <sub>2</sub> Te <sub>2</sub> and MnO <sub>2</sub> (C <sub>2</sub> H <sub>6</sub> NH <sub>3</sub> ) <sub>2</sub> and (NH <sub>4</sub> ) <sub>2</sub> CH <sub>2</sub> Te <sub>2</sub> Hybrid Compounds. Key Engineering Materials, 0, 811, 179-183.	0.4	5
78	Temperature-dependent photoluminescence of H <sub>2</sub> TPP and ZnTPP thin films on Si substrates. IOP Conference Series: Materials Science and Engineering, 2020, 858, 012036.	0.6	5
79	the single-layer manganite P <sub>r</sub> Co <sub>1-x</sub> Mn <sub>x</sub> O <sub>3</sub> . Journal of Magnetism and Magnetic Materials, 2007, 316, e692-e694.	3.2	5
80	Strain relaxation dynamics of multiferroic orthorhombic manganites. Journal of Physics Condensed Matter, 2021, 33, 125402.	1.8	5
81	Single crystal growth of T* <sub>1</sub> -phase SmLa <sub>0.8</sub> Sr <sub>0.2</sub> CuO <sub>4</sub> . Physica C: Superconductivity and Its Applications, 2001, 363, 25-30.	1.2	4
82	Synthesis and Structure Analysis of Aurivillius Phases Pb <sub>1-x</sub> Bi <sub>4-x</sub> Ti <sub>1-x</sub> Mn <sub>x</sub> O <sub>15</sub> . Journal of the Chinese Chemical Society, 2009, 56, 1108-1111.	1.4	4
83	Effects of partial Co replacement by Fe in Sr <sub>0.775</sub> Y <sub>0.225</sub> CoO <sub>3-δ</sub> on its magnetic property, oxygen deficiency and crystal structure. Materials Science-Poland, 2015, 33, 579-587.	1.0	4
84	A simple method to examine room-temperature corrosion of graphene-coated copper foil after stored for 2.5 years. Materials Research Express, 2018, 5, 105016.	1.6	4
85	3D long-range magnetic ordering in (C <sub>2</sub> H <sub>5</sub> NH <sub>3</sub> ) <sub>2</sub> CuCl <sub>4</sub> compound revealed by internal magnetic field from muon spin rotation and first principal calculation. Physica B: Condensed Matter, 2018, 545, 76-79.	2.7	4
86	4f-levels in rare earth cuprates. Journal of Alloys and Compounds, 2001, 323-324, 549-553.	5.5	3
87	Raman study of crystal-field excitations in Nd <sub>2</sub> CuO <sub>4</sub> under pressure. Physical Review B, 2001, 64, .	3.2	3
88	Intrinsic parameters of a T* <sub>1</sub> -phase SmLa <sub>0.8</sub> Sr <sub>0.2</sub> CuO <sub>4</sub> single crystal and the fluctuation effects deduced from magnetization data. Physical Review B, 2002, 65, .	3.2	3
89	Optical and magneto-optical study of orbital and spin ordering transitions in YVO <sub>3</sub> . Physica B: Condensed Matter, 2002, 312-313, 783-784.	2.7	3
90	Suppression of 2D fluctuation effect in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+δ</sub> single crystal with excessive-oxygen content. Physica C: Superconductivity and Its Applications, 2002, 369, 286-290.	1.2	3

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91	Changes of spin dynamics in multiferroic. <i>Physica B: Condensed Matter</i> , 2009, 404, 785-788.	2.7	3
92	Preparation of graphene oxide/poly (3,4-ethylenedioxytriophene): Poly (styrene sulfonate) (PEDOT:PSS) electrospun nanofibers. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	3
93	Raman and infrared study of 4f electron-phonon coupling in $\text{HoVO}_3$ . <i>Journal of Physics Condensed Matter</i> , 2016, 28, 435401.	1.8	3
94	Synthesis and Characterization of $[\text{Fe}(\text{picolinate})_3][\text{MnNi}(\text{oxalate})_3]\cdot\text{CH}_3\text{OH}$ Polymeric Complex. <i>Indonesian Journal of Chemistry</i> , 2014, 14, 311-314.	0.8	3
95	Logarithmic criticality in transverse thermoelectric conductivity of the ferromagnetic topological semimetal $\text{CoMnSb}$ . <i>Physical Review B</i> , 2021, 104, .	3.2	3
96	Magnetic relaxation of $\text{Nd}_{1.85}\text{Ce}_{0.15}\text{CuO}_4$ single crystal. <i>Physica C: Superconductivity and Its Applications</i> , 2000, 332, 374-377.	1.2	2
97	STRIPE AND SPIN DYNAMICS IN HOLE DOPED $\text{La}_2\text{NiO}_4$ , $\text{La}_2\text{CuO}_4$ , $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$ AND ELECTRON DOPED $\text{Nd}_{1.85}\text{Ce}_{0.15}\text{CuO}_4$ SEEN BY NUCLEAR RESONANCE. <i>International Journal of Modern Physics B</i> , 2000, 14, 3368-3373.	2.0	2
98	Raman scattering study of the effect of A- and B-site substitution on the room-temperature structure of $\text{Bi}_4\text{Ti}_4\text{O}_{15}$ . <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 196, 012041.	0.6	2
99	Thermoelectric Performance of $\text{Ge}_{0.99-x}\text{Na}_{0.01}\text{Ag}_x\text{Se}$ . <i>Journal of Physics: Conference Series</i> , 2019, 1245, 012094.	0.4	2
100	Crystal Structure and Magnetic Properties of the Ferromagnet $\text{CoMnSb}$ . , 2020, , .		2
101	Five Layers Aurivillius Phases $\text{Pb}_{2-x}\text{Bi}_{4+x}\text{Ti}_5\text{-xMn}_x\text{O}_{18}$ : Synthesis, Structure, Relaxor Ferroelectric and Magnetic Properties. <i>ITB Journal of Science</i> , 2011, 43, 139-150.	0.1	2
102	Thermodynamic fluctuations in -phase $\text{SmLa}_{0.8}\text{Sr}_{0.2}\text{CuO}_4$ single crystal. <i>Physica C: Superconductivity and Its Applications</i> , 2002, 369, 291-294.	1.2	1
103	Optically induced spin disorder in $\text{YVO}_3$ . <i>Journal of Physics: Conference Series</i> , 2009, 148, 012045.	0.4	1
104	Magnetic field induced ferroelectric to relaxor crossover in $\text{Tb}_{1-x}\text{Ca}_x\text{MnO}_3$ . <i>Journal of Physics Condensed Matter</i> , 2009, 21, 452203.	1.8	1
105	Raman Spectra of Multiferroics $\text{TbMnO}_3$ . <i>Advanced Materials Research</i> , 2015, 1112, 23-26.	0.3	1
106	Preparation of graphene oxide/poly (3,4-ethylenedioxytriophene): Poly (styrene sulfonate) (PEDOT:PSS) electrospun nanofibers. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	1
107	Thermal Reduction Study of Graphene Oxide Paper. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 196, 012027.	0.6	1
108	The Study on Tuning Photoluminescence of Colloidal Graphene Quantum Dots Synthesized through Laser Ablation. <i>Materials Science Forum</i> , 2019, 966, 3-7.	0.3	1

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109	Benchmarking Full-Potential Linearized Augmented Plane Wave (FLAPW) Method for Determination of Muon Stopping Sites in LiF. Key Engineering Materials, 0, 855, 248-252.	0.4	1
110	Estimation of Muon Stopping Site in CoCr2O4 Using Density Functional Theory. IOP Conference Series: Materials Science and Engineering, 2020, 924, 012027.	0.6	1
111	Magnetic States of the Co-ions in Ca and Y Doped (Bi,Pb)2Sr2Co2O8 Thermoelectric Materials. ITB Journal of Science, 2012, 44, 230-238.	0.1	1
112	Chirality of magnetic excitations in ferromagnetic $\text{SrRuO}_3$ . Physical Review B, 2022, 105, .		
113	Vortex dynamics across the second-peak field in $\text{SmLa}_{0.8}\text{Sr}_{0.2}\text{CuO}_4$ . Physica C: Superconductivity and Its Applications, 2004, 412-414, 490-496.	1.2	0
114	Photo-induced modulation of ferroelectric polarization in multiferroic $\text{TbMnO}_3$ . , 2013, , .		0
115	Phonon Properties of $\text{CoTiO}_2$ Single Crystal. Materials Science Forum, 0, 827, 360-365.	0.3	0
116	Magnetic and Transport Properties of Frustrated $\text{MnPd}$ alloys. Journal of Physics: Conference Series, 2016, 683, 012026.	0.4	0
117	Temperature Dependent Raman Studies of $\text{Pr}_2\text{Zr}_2\text{O}_7$ Single Crystal. IOP Conference Series: Materials Science and Engineering, 2017, 196, 012051.	0.6	0
118	3rd International Conference on Functional Materials Science 2016. IOP Conference Series: Materials Science and Engineering, 2017, 196, 011001.	0.6	0
119	Crystal Structure and Magnetic Properties of Non-Stoichiometric $\text{Co}_2\text{MnGa}$ Heusler Alloy. Materials Science Forum, 2019, 966, 319-324.	0.3	0
120	Density Functional Theory Approach for Muon Sites Estimation in $\text{Mn}_3\text{Sn}$ . Materials Science Forum, 0, 1028, 199-203.	0.3	0
121	Thermoelectric Properties of $\text{SnO}_2/\text{Bi}_2\text{Te}_3$ Composite. Materials Science Forum, 0, 1028, 99-104.	0.3	0
122	Synthesis of Bismuth Ferrite and its Application for Oscillator Material up to 25 GHz Range. Materials Science Forum, 0, 1028, 9-14.	0.3	0
123	Evidence for Local Structural Distortion and Mixed States of Fe in $\text{Fe}^{2+}/\text{Fe}^{3+}$ - $\text{NaFeO}_2$ : A Bond Valence Sum Analysis. Materials Science Forum, 0, 1028, 21-25.	0.3	0
124	Stability of High-Spin State of Iron in $\text{Fe}^{2+}\text{-NaFeO}_2$ . Key Engineering Materials, 0, 855, 177-182.	0.4	0
125	Experimental Verification For Magnon and Photon Generation using YIG-Loaded Planar Resonator. , 2022, , .		0