# Subhash Thota

## List of Publications by Year in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 84 papers | 1,738 citations | 279798 23 h-index | 302126 39 g-index |
| 86 all docs | 86 docs citations | 86 times ranked | 2328 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Magnetization reversal, field-induced transitions and Hâ€“T phase diagram of Y<sub>1â^'x </sub>Ce<sub> x </sub>CrO<sub>3</sub>. Journal of Physics Condensed Matter, 2022, 34, 065801. | 1.8 | 3 |
| 2 | Determination of the tricritical point, Hâ€“T phase diagram and exchange interactions in the antiferromagnet MnTa<sub>2</sub>O<sub>6</sub>. Journal of Physics Condensed Matter, 2022, 34, 155801. | 1.8 | 6 |
| 3 | Strong correlation between structure and magnetic ordering in tetragonally distorted off-stoichiometric spinels <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Mn</mml:mi><mml:mrow><mml:mn>1.1</ mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml. Physical Review Materials, 2022, | 2.4 | 1 |
| 4 | Substrate orientation dependent characteristics of half-metallic and metallic superlattices [La<sub>0.7</sub>Sr<sub>0.3</sub>MnO<sub>3</sub>/LaNiO<sub>3</sub>]<sub>10</sub>. Journal of Applied Physics, 2022, 131, 125305. | 2.5 | 2 |
| 5 | Antiferromagnetic short-range order and cluster spin-glass state in diluted spinel ZnTiCoO<sub>4</sub>. Journal of Physics Condensed Matter, 2022, , . | 1.8 | 4 |
| 6 | Anisotropic Ferromagnetic Organic Nanoflowers. Journal of Physical Chemistry C, 2022, 126, 8511-8518. | 3.1 | 4 |
| 7 | Effect of Ce substitution on the local magnetic ordering and phonon instabilities in antiferromagnetic DyCrO<sub>3</sub> perovskites. Journal of Physics Condensed Matter, 2022, 34, 345803. | 1.8 | 3 |
| 8 | Tailoring the electronic structure and magnetic properties of pyrochlore Co<sub>2</sub>Ti<sub>1â^'x </sub>Ge<sub> x </sub>O<sub>4</sub>: a GGA + U ab initio study. Journal of Physics Condensed Matter, 2021, 33, 145504. | 1.8 | 4 |
| 9 | Identification of a Fe-Dependent Optical Mode in CuAl<sub>1â€“x</sub>Fe<sub>x</sub>O<sub>2</sub>. Journal of Physical Chemistry C, 2021, 125, 3577-3583. | 3.1 | 3 |
| 10 | Magnetic ground state and exchange interactions in the Ising chain ferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Co</mml:mi><mml:msub><mml:mi>Nb</mml:mi><mml:n mathvariant="normal">O</mml:mi><mml:mn>6</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2021, 103, . | 3.2 | 18 |
| 11 | Dynamical response of localized electron hopping and dipole relaxation in Cu<sub>1â€‰â^'â€‰x </sub>Zn<sub> x </sub>Fe<sub>2</sub>O<sub>4</sub> magnetoceramics. Journal Physics D: Applied Physics, 2021, 54, 425303. | 2.8 | 5 |
| 12 | Lattice dynamics and magnetic exchange interactions in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>GeCo</mml:mi><mml:mn>2</mml:mn></ mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> : A spinel with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>S</mml:mi><mml:mo>=</mml:mo><mml:mfrac><mml:m pyrochlore lattice. Physical Review B, 2021, 104, . | 3.2 | 7 |
| 13 | Magnetic field-temperature phase diagram, exchange constants and specific heat exponents of the antiferromagnet MnNb2O6. Journal of Physics Condensed Matter, 2021, 33, 345801. | 1.8 | 6 |
| 14 | The role of epitaxial strain on the electronic and magnetic structure of La<sub>0.7</sub>Sr<sub>0.3</sub>MnO<sub>3</sub>/LaCoO<sub>3</sub> bilayers. AIP Advances, 2021, 11, 125115. | 1.3 | 0 |
| 15 | Cluster Glass Behavior in Orthorhombic SmFeO<sub>3</sub> Perovskite: Interplay between Spin Ordering and Lattice Dynamics. Chemistry of Materials, 2020, 32, 1250-1260. | 6.7 | 27 |
| 16 | Electronic structure and magnetic exchange interactions in Zn diluted CuFe2O4 magneto-ceramics. Journal of Applied Physics, 2020, 128, . | 2.5 | 8 |
| 17 | Elastic strain control of electronic structure, and magnetic properties of [Pr1â^'xCaxMnO3/SrTiO3]15 superlattices. Journal of Applied Physics, 2020, 127, . | 2.5 | 6 |
| 18 | Neutron diffraction evidence for local spin canting, weak Jahnâ€“Teller distortion, and magnetic compensation in Ti<sub>1â^'x </sub>Mn<sub> x </sub>Co<sub>2</sub>O<sub>4</sub> spinel. Journal of Physics Condensed Matter, 2020, 32, 245801. | 1.8 | 8 |

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|---|---|---|---|
| 19 | Antiferromagnetism, spin-glass state, Hâ€“T phase diagram, and inverse magnetocaloric effect in Co<sub>2</sub>RuO<sub>4</sub>. Journal of Physics Condensed Matter, 2020, 32, 485806. | 1.8 | 22 |
| 20 | Effects of radiative local heating on metal solidification during selective laser melting for additive manufacturing. Applied Surface Science, 2019, 496, 143594. | 6.1 | 8 |
| 21 | Magnetic ground state, field-induced transitions, electronic structure, and optical band gap of the frustrated antiferromagnet GeCo2O4. Physical Review B, 2019, 99, . | 3.2 | 22 |
| 22 | Low-temperature anomalous spin correlations and Kondo effect in ferromagnetic SrRuO3/LaNiO3/La0.7Sr0.3MnO3 trilayers. Physical Review B, 2019, 99, . | 3.2 | 14 |
| 23 | Role of phase transition in the dielectric and magnetic properties of Na containing NiO. Journal of Physics and Chemistry of Solids, 2019, 130, 154-164. | 4.0 | 3 |
| 24 | Cationic distribution, exchange interactions, and relaxation dynamics in Zn-diluted MnCo2O4 nanostructures. Journal of Applied Physics, 2019, 125, . | 2.5 | 10 |
| 25 | Magnetic exchange interactions and band gap bowing in NixMg1â^'xO (0.0â€‰â‰€â€‰xâ€‰â‰€â€‰1.0): A GGA+U density functional study. Journal of Applied Physics, 2019, 126, 233904. | 2.5 | 4 |
| 26 | Phonon Dynamics in Anisotropic Dilute CuAl<sub>1â€“x</sub>Fe<sub>x</sub>O<sub>2</sub> Delafossite Alloys by a Weighted Dynamical Matrix Approach. Journal of Physical Chemistry C, 2019, 123, 30604-30612. | 3.1 | 5 |
| 27 | Thermal hysteresis and vibrational excitations in NiO containing NaNbO<sub>3</sub>. Journal Physics D: Applied Physics, 2019, 52, 115301. | 2.8 | 4 |
| 28 | Effect of NiO substitution on the structural and dielectric behaviour of NaNbO3. Journal of Applied Physics, 2018, 123, . | 2.5 | 15 |
| 29 | Role of dilution on the electronic structure and magnetic ordering of spinel cobaltites. Physical Review B, 2018, 98, . | 3.2 | 17 |
| 30 | Structural and magnetic properties of La0.7Sr0.3MnO3/LaCoO3 heterostructures. Applied Physics Letters, 2018, 113, . | 3.3 | 10 |
| 31 | Cubic phase stability, optical and magnetic properties of Cu-stabilized zirconia nanocrystals. Journal Physics D: Applied Physics, 2018, 51, 225304. | 2.8 | 8 |
| 32 | Interfacial magnetism in La<sub>0.7</sub>Sr<sub>0.3</sub>MnO<sub>3</sub>/LaNiO<sub>3</sub> ultrathin superlattices. Journal Physics D: Applied Physics, 2018, 51, 325001. | 2.8 | 8 |
| 33 | Nature of magnetic ordering in nanocomposites of Zn1-Ni O and NiO. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 103, 46-52. | 2.7 | 3 |
| 34 | Magnetic exchange interactions and dielectric studies of Zn1â€“xNixOâ€“NiO composites. Journal Physics D: Applied Physics, 2017, 50, 325002. | 2.8 | 4 |
| 35 | Size-dependent structural, magnetic, and optical properties of MnCo2O4 nanocrystallites. Journal of Applied Physics, 2017, 121, . | 2.5 | 45 |
| 36 | Neutron diffraction study of the inverse spinels <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Co</mml:mi><mml:mn>2</mml:mn></mml: and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Co</mml:mi><mml:mn>2</mml:mn></mml: Physical Review B, 2017, 96, . | 3.2 | 30 |

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|---|---|---|---|
| 37 | Finite-size scaling and exchange-bias in SrRuO3/LaNiO3/SrRuO3 trilayers. Journal of Applied Physics, 2017, 122, . | 2.5 | 11 |
| 38 | Structural and dielectric properties of the fluorite-type LaxCe1â^'xO2â^'Î´ceramics. Journal Physics D: Applied Physics, 2017, 50, 495601. | 2.8 | 2 |
| 39 | Magnetic phase diagram of Co(Cr1â^'xAlx)2O4 (xâ€‰=â€‰0.0â€“1.0). Journal of Applied Physics, 2017, 122, 073908. | 2.5 | 1 |
| 40 | Dielectric properties of (1â^'x)KNbO3â^'xNiO two-phase composites. Journal Physics D: Applied Physics, 2017, 50, 415305. | 2.8 | 6 |
| 41 | Effects of Cu doping on the electronic structure and magnetic properties of MnCo<sub>2</sub>O<sub>4</sub>nanostructures. Journal of Physics Condensed Matter, 2017, 29, 425803. | 1.8 | 31 |
| 42 | Modulation of Peptide Based Nano-Assemblies with Electric and Magnetic Fields. Scientific Reports, 2017, 7, 2726. | 3.3 | 24 |
| 43 | Nature of Magnetic Ordering in Cobaltâ€Based Spinels. , 2017, , . | | 3 |
| 44 | Low-temperature anomalous magnetic behavior of Co2TiO4 and Co2SnO4. Journal of Applied Physics, 2016, 120, . | 2.5 | 26 |
| 45 | Reentrant spin-glass behavior and bipolar exchange-bias effect in â€œSnâ€•substituted cobalt-orthotitanate. Journal of Applied Physics, 2016, 119, . | 2.5 | 20 |
| 46 | Peculiarities of the temperature dependence of electron spin resonance and Raman studies of Zn1â^'xNixO/NiO two-phase nanocomposites. Journal of Applied Physics, 2016, 119, . | 2.5 | 16 |
| 47 | Spectroscopic studies of Co<sub>2</sub>TiO<sub>4</sub> and Co<sub>3</sub>O<sub>4</sub> twoâ€phase composites. Physica Status Solidi (B): Basic Research, 2016, 253, 2270-2282. | 1.5 | 23 |
| 48 | Localized Charge Carrier Transport Properties of Zn1â^'x Ni x O/NiO Two-Phase Composites. Journal of Electronic Materials, 2016, 45, 2059-2065. | 2.2 | 10 |
| 49 | Magnetic compensation, field-dependent magnetization reversal, and complex magnetic ordering in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Co</mml:mi><mml:mn>2</mml:mn></mml:mrow></mml:math> Physical Review B, 2015, 92, . | 3.2 | 46 |
| 50 | The X-ray photoelectron spectroscopy and high-temperature structural studies of Zn1â^'xNixO/NiO two-phase composites. Physica Status Solidi (B): Basic Research, 2015, 252, 2323-2329. | 1.5 | 10 |
| 51 | Dielectric response and ac-conductivity studies of Gd<sub>2</sub>O<sub>3</sub>- contained K<sub>0.5</sub>Na<sub>0.5</sub>NbO<sub>3</sub> piezoelectric ceramics. IEEE Transactions on Dielectrics and Electrical Insulation, 2015, 22, 3668-3675. | 2.9 | 17 |
| 52 | On the nature of magnetic state in the spinel Co2SnO4. Journal of Physics Condensed Matter, 2015, 27, 166001. | 1.8 | 31 |
| 53 | Dielectric spectroscopy of Dy2O3 doped (K0.5Na0.5)NbO3 piezoelectric ceramics. , 2014, , . | | 0 |
| 54 | Growth mechanism and electron spin resonance studies of Zn<inf>1−x</inf>Ni<inf>x</inf>O/NiO two-phase nanocomposite. , 2014, , . | | 1 |

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|---|---|---|---|
| 55 | Dielectric and AC-conductivity studies of Dy2O3 doped (K0.5Na0.5)NbO3 ceramics. AIP Advances, 2014, 4, . | 1.3 | 23 |
| 56 | Structural and dielectric studies of Co doped MgTiO3 thin films fabricated by RF magnetron sputtering. AIP Advances, 2014, 4, . | 1.3 | 9 |
| 57 | The ac-magnetic susceptibility and dielectric response of complex spin ordering processes in Mn3O4. Journal of Applied Physics, 2014, 116, . | 2.5 | 12 |
| 58 | The dielectric behavior of Zn1â^'xNixO/NiO two-phase composites. Journal Physics D: Applied Physics, 2014, 47, 435305. | 2.8 | 15 |
| 59 | Ion-induced secondary electron emission, optical and hydration resistant behavior of MgO, Mgâ€“Moâ€“O and Mgâ€“Ceâ€“O thin films. Thin Solid Films, 2014, 556, 260-269. | 1.8 | 8 |
| 60 | Size-dependent shifts of the NÃ©el temperature and optical band-gap in NiO nanoparticles. Journal of Applied Physics, 2013, 114, . | 2.5 | 71 |
| 61 | Solâ€“gel synthesis and optical behavior of Mgâ€“Ceâ€“O nano-crystallites. Journal of Sol-Gel Science and Technology, 2013, 68, 46-53. | 2.4 | 7 |
| 62 | Memory Effects and Relaxation Dynamics of ${m MnCo}_{2}{m O}_{4}$ Nanocrystallites. IEEE Transactions on Magnetics, 2013, 49, 1020-1023. | 2.1 | 6 |
| 63 | The role of surface effects on the optical behavior of nanocrystalline NiO. AIP Conference Proceedings, 2013, , . | 0.4 | 3 |
| 64 | Phase evaluation and optical studies of cubic Mn[sub x]Zr[sub 1-x]O[sub 2] and Co[sub y]Zr[sub 1-y]O[sub 2] nanocrystals. , 2013, , . | | 1 |
| 65 | Co-existence of ferrimagnetism and spin-glass state in the spinel Co2SnO4. Journal of Applied Physics, 2013, 113, . | 2.5 | 31 |
| 66 | Optical and magnetic studies of Zn1-2yNiyCoyO (y â‰ 0.05) degenerate semi-magnetic semiconductor. , 2012, , . | | 0 |
| 67 | Formation mechanism, optical and magneto-dielectric studies of new cubic spinel MgMnO3. AIP Advances, 2012, 2, . | 1.3 | 8 |
| 68 | Synthesis, structure, and magnetic behavior of nanoparticles of cubic ZnMnO<sub>3</sub>. Applied Physics Letters, 2012, 100, 252407. | 3.3 | 26 |
| 69 | Synthesis and Optical Characterization of Mg<sub>1-x</sub>Ni<sub>x</sub>O Nanostructures. ISRN Nanomaterials, 2012, 2012, 1-8. | 0.7 | 12 |
| 70 | Magnetic transitions in Mn3O4and an anomaly at 38 K in magnetization and specific heat. Physical Review B, 2011, 83, . | 3.2 | 30 |
| 71 | Magnetocaloric effect and improved relative cooling power in (La<sub>0.7</sub>Sr<sub>0.3</sub>MnO<sub>3</sub>/SrRuO<sub>3</sub>) superlattices. Journal of Physics Condensed Matter, 2011, 23, 052201. | 1.8 | 38 |
| 72 | On the derivation of the magnetocaloric properties in ferrimagnetic spinel Mn3O4. Journal of Applied Physics, 2011, 109, . | 2.5 | 12 |

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| 73 | Solâ€“gel synthesis of highly luminescent magnesium oxide nanocrystallites. Journal of Luminescence, 2011, 131, 640-648. | 3.1 | 54 |
| 74 | Magnetic frustration and short-range ordering in cubic defect spinel MgMnO3. Journal of Applied Physics, 2011, 110, . | 2.5 | 20 |
| 75 | Formation and magnetic behaviour of manganese oxide nanoparticles. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 167, 153-160. | 3.5 | 50 |
| 76 | Synthesis and magnetic properties of nanocrystals of cubic defect spinel MgMnO3. Applied Physics Letters, 2010, 97, 112507. | 3.3 | 17 |
| 77 | Anisotropic magnetocaloric effect in all-ferromagnetic (La0.7Sr0.3MnO3/SrRuO3) superlattices. Applied Physics Letters, 2010, 97, . | 3.3 | 34 |
| 78 | Optical, electrical and magnetic properties of Co3O4 nanocrystallites obtained by thermal decomposition of solâ€“gel derived oxalates. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2009, 164, 30-37. | 3.5 | 123 |
| 79 | Ferromagnetic ordering in pulsed laser deposited Zn1â^'xNixO/ZnO bilayer thin films. Thin Solid Films, 2008, 517, 750-754. | 1.8 | 22 |
| 80 | A comparative study of the magnetic properties of bulk and nanocrystalline Co<sub>3</sub>O<sub>4</sub>. Journal of Physics Condensed Matter, 2008, 20, 015218. | 1.8 | 159 |
| 81 | Preparation, Microstructure and Optical Absorption Behaviour of NiO Thin Films. Journal of Nanoscience and Nanotechnology, 2008, 8, 4111-4115. | 0.9 | 30 |
| 82 | Solâ€“Gel Synthesis and Behaviour of Nickel Containing ZnO Nanoparticles. Journal of Nanoscience and Nanotechnology, 2008, 8, 4073-4080. | 0.9 | 11 |
| 83 | Solâ€“gel synthesis and anomalous magnetic behaviour of NiO nanoparticles. Journal of Physics and Chemistry of Solids, 2007, 68, 1951-1964. | 4.0 | 156 |
| 84 | On the solâ€“gel synthesis and thermal, structural, and magnetic studies of transition metal (Ni, Co,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf | 1.8 | 117 |