

# Chandrabhas Narayana

## List of Publications by Year in descending order

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Version: 2024-02-01

166  
papers

4,279  
citations

126708

33  
h-index

138251

58  
g-index

168  
all docs

168  
docs citations

168  
times ranked

6881  
citing authors

| # | ARTICLE  | IF   | CITATIONS |
|---|--|------|-----------|
| 1 | Solid hydrogen at 342â€‰GPa: no evidence for an alkali metal. <i>Nature</i> , 1998, 393, 46-49.  | 13.7 | 230       |
| 2 | Temperature Induced Structural Transformations and Gas Adsorption in the Zeolitic Imidazolate Framework ZIF-8: A Raman Study. <i>Journal of Physical Chemistry A</i> , 2013, 117, 11006-11012. | 1.1  | 212       |
| 3 | Specific Inhibition of p300-HAT Alters Global Gene Expression and Represses HIV Replication. <i>Chemistry and Biology</i> , 2007, 14, 645-657.   | 6.2  | 183       |
| 4 | Hot Spots in Ag Coreâ€™Au Shell Nanoparticles Potent for Surface-Enhanced Raman Scattering Studies of Biomolecules. <i>Journal of Physical Chemistry C</i> , 2007, 111, 4388-4392.             | 1.5  | 154       |
| 5 | Metalâ€“Organic Framework (MOF) Derived Electrodes with Robust and Fast Lithium Storage for Liâ€–Ion Hybrid Capacitors. <i>Advanced Functional Materials</i> , 2019, 29, 1900532.              | 7.8  | 141       |
| 6 | Spin-Reorientation, Ferroelectricity, and Magnetodielectric Effect in $YFeO_3$   |      |           |

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|----|--|------|-----------|
| 19 | An infrared spectroscopic study of the low-spin to intermediate-spin state ( $1A_1 \rightarrow 3T_1$ ) transition in rare earth cobaltates, $\text{LnCoO}_3$ ( $\text{Ln}=\text{La}, \text{Pr}$ and $\text{Nd}$ ). <i>Chemical Physics Letters</i> , 2001, 340, 275-281. | 1.2  | 57        |
| 20 | Universal Metal-Semiconductor Hybrid Nanostructured SERS Substrate for Biosensing. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 5807-5812.   | 4.0  | 55        |
| 21 | Low cost, rapid synthesis of graphene on Ni: An efficient barrier for corrosion and thermal oxidation. <i>Carbon</i> , 2014, 78, 384-391.  | 5.4  | 51        |
| 22 | Highly Decoupled Graphene Multilayers: Turbostraticity at its Best. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4437-4443.   | 2.1  | 50        |
| 23 | The I-Tetraplex Building Block: Rational Design and Controlled Fabrication of Robust 1D DNA Scaffolds through Non-Watson-Crick Interactions. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 2646-2649.   | 7.2  | 47        |
| 24 | Tailored periodic Si nanopillar based architectures as highly sensitive universal SERS biosensing platform. <i>Sensors and Actuators B: Chemical</i> , 2018, 254, 264-271.   | 4.0  | 42        |
| 25 | Mechanistic insights into the promotional effect of Ni substitution in non-noble metal carbides for highly enhanced water splitting. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120560.  | 10.8 | 41        |
| 26 | Sevenfold Coordinated MgSe: Experimental Internal Atom Position Determination to 146 GPa, Diffraction Studies to 202 GPa, and Theoretical Studies to 500 GPa. <i>Physical Review Letters</i> , 1998, 81, 2723-2726.  | 2.9  | 39        |
| 27 | Nanostructured Barium Titanate Prepared Through a Modified Reverse Micellar Route: Structural Distortion and Dielectric Properties. <i>Journal of Materials Research</i> , 2005, 20, 1415-1421.  | 1.2  | 38        |
| 28 | Honeycomb Porous Framework of Zinc(II): Effective Host for Palladium Nanoparticles for Efficient Three-Component ( $A \times B \times C$ ) Coupling and Selective Gas Storage. <i>ChemPlusChem</i> , 2012, 77, 743-747.  | 1.3  | 38        |
| 29 | Heterostructure composites of rGO/GeO <sub>2</sub> /PANI with enhanced performance for Li ion battery anode material. <i>Journal of Power Sources</i> , 2016, 306, 791-800.  | 4.0  | 38        |
| 30 | Autoacetylation Induced Specific Structural Changes in Histone Acetyltransferase Domain of p300: Probed by Surface Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2007, 111, 11877-11879.   | 1.2  | 37        |
| 31 | Few layer graphene to graphitic films: infrared photoconductive versus bolometric response. <i>Nanoscale</i> , 2013, 5, 381-389.   | 2.8  | 37        |
| 32 | SERS and MD simulation studies of a kinase inhibitor demonstrate the emergence of a potential drug discovery tool. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10416-10421.                                      | 3.3  | 37        |
| 33 | $\text{Bi}_4\text{TaO}_8\text{Cl}$ Nano-Photocatalyst: Influence of Local, Average, and Band Structure. <i>Inorganic Chemistry</i> , 2017, 56, 5525-5536.  | 1.9  | 37        |
| 34 | Raman Scattering Studies on Heptane under High Pressure. <i>Journal of Physical Chemistry B</i> , 2006, 110, 8777-8781.  | 1.2  | 36        |
| 35 | Understanding guest and pressure-induced porosity through structural transition in flexible interpenetrated MOF by Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 149-155.   | 1.2  | 36        |
| 36 | Visible Fluorescence Induced by the Metal Semiconductor Transition in Composites of Carbon Nanotubes with Noble Metal Nanoparticles. <i>Physical Review Letters</i> , 2007, 99, 167404.  | 2.9  | 34        |

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|----|--|-----|-----------|
| 37 | Pressure-Induced Phase Transitions in Germanium Telluride: Raman Signatures of Anharmonicity and Oxidation. <i>Physical Review Letters</i> , 2019, 122, 145701.  | 2.9 | 33        |
| 38 | A Raman study of the temperature-induced low-to-intermediate-spin state transition in LaCoO <sub>3</sub> . <i>Journal of Molecular Structure</i> , 2004, 706, 121-126.   | 1.8 | 32        |
| 39 | Dielectric and Raman investigations of structural phase transitions in (C <sub>2</sub> H <sub>5</sub> NH <sub>3</sub> ) <sub>2</sub> CdCl <sub>4</sub> . <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 12207-12214. | 1.3 | 31        |
| 40 | Pressure induced band inversion, electronic and structural phase transitions in InTe: A combined experimental and theoretical study. <i>Physical Review B</i> , 2018, 97, .  | 1.1 | 31        |
| 41 | Magnetic Interactions in Layered Nickel Alkanethiolates. <i>Journal of Physical Chemistry C</i> , 2007, 111, 1868-1870.  | 1.5 | 30        |
| 42 | Nanocrystalline Ag microflowers as a versatile SERS platform. <i>Nanoscale</i> , 2014, 6, 7480.  | 2.8 | 29        |
| 43 | Guest dependent Brillouin and Raman scattering studies of zeolitic imidazolate framework-8 (ZIF-8) under external pressure. <i>Journal of Chemical Physics</i> , 2016, 144, 134704.  | 1.2 | 29        |
| 44 | New Nano Architecture for SERS Applications. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1130-1135.  | 2.1 | 28        |
| 45 | Revealing the trehalose mediated inhibition of protein aggregation through lysozyme-silver nanoparticle interaction. <i>Soft Matter</i> , 2015, 11, 7241-7249.   | 1.2 | 28        |
| 46 | Influence of lattice distortion on the Curie temperature and spin-phonon coupling in LaMn <sub>0.5</sub> Co <sub>0.5</sub> O <sub>3</sub> . <i>Journal of Physics Condensed Matter</i> , 2010, 22, 346006.                   | 0.7 | 27        |
| 47 | Stress states in individual Si particles of a cast Al-Si alloy: Micro-Raman analysis and microstructure based modeling. <i>Journal of Alloys and Compounds</i> , 2015, 625, 296-308.   | 2.8 | 27        |
| 48 | Crystal Structure and Band Gap Engineering in Polyoxometalate-Based Inorganic-Organic Hybrids. <i>Inorganic Chemistry</i> , 2016, 55, 3364-3377.   | 1.9 | 27        |
| 49 | Elastic and structural instability of cubic $\text{Sn}^3$<br>$\text{Sn}^3$<br><i>Physical Review B</i> , 2010, 82, .   | 1.1 | 26        |
| 50 | In Situ Growth of Self-Assembled ZIF-8-Aminoclay Nanocomposites with Enhanced Surface Area and CO <sub>2</sub> Uptake. <i>Inorganic Chemistry</i> , 2017, 56, 9426-9435.   | 1.9 | 26        |
| 51 | A multifunctional covalently linked graphene-MOF hybrid as an effective chemiresistive gas sensor. <i>Journal of Materials Chemistry A</i> , 2021, 9, 17434-17441.   | 5.2 | 26        |
| 52 | Carbon Assisted Electroless Gold for Surface Enhanced Raman Scattering Studies. <i>Journal of Physical Chemistry C</i> , 2007, 111, 6700-6705.   | 1.5 | 25        |
| 53 | Pressure induced structural, electronic topological, and semiconductor to metal transition in AgBiSe <sub>2</sub> . <i>Applied Physics Letters</i> , 2016, 109, .  | 1.5 | 25        |
| 54 | Metal-coated magnetic nanoparticles for surface enhanced Raman scattering studies. <i>Bulletin of Materials Science</i> , 2011, 34, 207-216.   | 0.8 | 24        |

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|----|---|-----|-----------|
| 55 | Raman Spectroscopic Investigations of Pressure-Induced Phase Transitions in $n$ -Hexane. Journal of Physical Chemistry B, 2007, 111, 14130-14135.   | 1.2 | 23        |
| 56 | Ion Transport Mechanism in Glasses: Non-Arrhenius Conductivity and Nonuniversal Features. Journal of Physical Chemistry B, 2010, 114, 13381-13385.  | 1.2 | 23        |
| 57 | Surface enhanced Raman spectroscopy of Aurora kinases: direct, ultrasensitive detection of autophosphorylation. RSC Advances, 2013, 3, 4221.  | 1.7 | 20        |
| 58 | Extraordinarily Stable Noncubic Structures of Au: A High-Pressure and -Temperature Study. Chemistry of Materials, 2017, 29, 1485-1489.  | 3.2 | 20        |
| 59 | Pressure-Induced Structural Transition in $n$ -Pentane: A Raman Study. Journal of Physical Chemistry B, 2007, 111, 7003-7008.   | 1.2 | 19        |
| 60 | Surface-Enhanced Raman Spectroscopic Studies of Coactivator-Associated Arginine Methyltransferase 1. Journal of Physical Chemistry B, 2008, 112, 6703-6707.   | 1.2 | 19        |
| 61 | Raman and X-ray Investigations of Ferroelectric Phase Transition in $\text{NH}_4\text{HSO}_4$ . Journal of Physical Chemistry A, 2012, 116, 223-230.  | 1.1 | 19        |
| 62 | White Light Generation by Carbonyl Based Indole Derivatives Due to Proton Transfer: An Efficient Fluorescence Sensor. Journal of Physical Chemistry A, 2013, 117, 2738-2752.                                    | 1.1 | 19        |
| 63 | LiFeC <sub>4</sub> spinel cation-ordered spinel   |     | 19        |
| 64 | Surface-Enhanced Raman Spectroscopy as a Tool for Distinguishing Extracellular Vesicles under Autophagic Conditions: A Marker for Disease Diagnostics. Journal of Physical Chemistry B, 2020, 124, 10952-10960. | 1.2 | 19        |
| 65 | Substrate induced tuning of compressive strain and phonon modes in large area MoS <sub>2</sub> and WS <sub>2</sub> van der Waals epitaxial thin films. Journal of Crystal Growth, 2017, 470, 51-57.             | 0.7 | 18        |
| 66 | Harvesting Delayed Fluorescence in Perovskite Nanocrystals Using Spin-Forbidden Mn d States. ACS Energy Letters, 2020, 5, 353-359.  | 8.8 | 18        |
| 67 | The I-Tetraplex Building Block: Rational Design and Controlled Fabrication of Robust 1D DNA Scaffolds through Non-Watson-Crick Interactions. Angewandte Chemie, 2007, 119, 2700-2703.                           | 1.6 | 16        |
| 68 | Improved broadband and omnidirectional light absorption in silicon nanopillars achieved through gradient mesoporosity induced leaky waveguide modulation. RSC Advances, 2016, 6, 109157-109167.                 | 1.7 | 16        |
| 69 | An unusual temperature induced isostructural phase transition in a scheelite, $\text{Li}_0.5\text{Ce}_0.5\text{MoO}_4$ . Dalton Transactions, 2013, 42, 7672.   | 1.6 | 15        |
| 70 | Conformational change in a urea catalyst induced by sodium cation and its effect on enantioselectivity of a Friedel-Crafts reaction. Tetrahedron, 2014, 70, 3459-3465.  | 1.0 | 15        |
| 71 | Novel Heterogeneous $\text{SO}_3\text{Na}$ -Carbon Transesterification Catalyst for the Production of Biodiesel. ChemistrySelect, 2017, 2, 1925-1931.   | 0.7 | 15        |
| 72 | High Surface Area $\text{SnO}_2$ - $\text{Ta}_2\text{O}_5$ Composite for Visible Light-Driven Photocatalytic Degradation of an Organic Dye. Photochemistry and Photobiology, 2018, 94, 633-640.                 | 1.3 | 15        |

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|----|--|-----|-----------|
| 73 | Impact of Average, Local, and Electronic Structure on Visible Light Photocatalysis in Novel BiREWO <sub>6</sub> (RE = Eu and Tb) Nanomaterials. ACS Applied Materials & Interfaces, 2018, 10, 35876-35887.   | 4.0 | 15        |
| 74 | Functional Monochalcogenides: Raman Evidence Linking Properties, Structure, and Metavalent Bonding. Physical Review Letters, 2020, 125, 145301.  | 2.9 | 15        |
| 75 | Nanogranular Au films deposited on carbon covered Si substrates for enhanced optical reflectivity and Raman scattering. Nanotechnology, 2007, 18, 145702.  | 1.3 | 14        |
| 76 | Field effect transistors and photodetectors based on nanocrystalline graphene derived from electron beam induced carbonaceous patterns. Nanotechnology, 2012, 23, 425301.  | 1.3 | 14        |
| 77 | An impediment to random walk: trehalose microenvironment drives preferential endocytic uptake of plasmonic nanoparticles. Chemical Science, 2016, 7, 3730-3736.  | 3.7 | 14        |
| 78 | Nature of electric field driven ferroelectric phase transition in lead-free Na <sub>1/2</sub> Bi <sub>1/2</sub> TiO <sub>3</sub> : In-situ temperature dependent ferroelectric hysteresis and Raman scattering studies. Journal of Alloys and Compounds, 2018, 732, 945-951. | 2.8 | 14        |
| 79 | Dielectric Properties of Rare Earth Cobaltates, LnCoO <sub>3</sub> (Ln = La, Pr, Nd), Across the Spin-State Transition. Ferroelectrics, 2004, 306, 227-234.  | 0.3 | 13        |
| 80 | Brillouin scattering studies in Fe <sub>3</sub> O <sub>4</sub> across the Verwey transition. Physical Review B, 2005, 71, .  | 1.1 | 13        |
| 81 | A Brillouin study of the temperature-dependence of the acoustic modes across the insulator-metal transitions in V <sub>2</sub> O <sub>3</sub> and Cr-doped V <sub>2</sub> O <sub>3</sub> . Solid State Communications, 2006, 138, 466-471.                                   | 0.9 | 13        |
| 82 | Facile and Green Synthesis of SERS Active and Ferromagnetic Silver Nanorods. European Journal of Inorganic Chemistry, 2010, 2010, 4969-4974.   | 1.0 | 13        |
| 83 | Theoretical and experimental approach to the investigation of hyperpolarizability and charge transfer characteristics of NLO active 2,3,4,5-pentamethoxy chalcone with silver atoms adsorbed. Optical Materials, 2018, 84, 409-421.  | 1.7 | 13        |
| 84 | Effect of substrate roughness on growth of diamond by hot filament CVD. Bulletin of Materials Science, 2010, 33, 251-255.  | 0.8 | 12        |
| 85 | Polymorphism in Photoluminescent KNdW <sub>2</sub> O <sub>8</sub> : Synthesis, Neutron Diffraction, and Raman Study. Crystal Growth and Design, 2014, 14, 835-843.   | 1.4 | 12        |
| 86 | Effect of pore occupancy on the acoustic properties of zeolitic imidazolate framework (ZIF)-8: A Brillouin spectroscopic study at ambient and low temperatures. Journal of Chemical Physics, 2015, 143, 234703.  | 1.2 | 12        |
| 87 | Nano-morphology induced additional surface plasmon resonance enhancement of SERS sensitivity in Ag/GaN nanowall network. Nanotechnology, 2015, 26, 465701.   | 1.3 | 12        |
| 88 | Structural phase transitions in aluminium above 320 GPa. Comptes Rendus - Geoscience, 2019, 351, 243-252.  | 0.4 | 12        |
| 89 | Chemical ordering and pressure-induced isostructural and electronic transitions in MoSSe crystal. Physical Review B, 2020, 102, .  | 1.1 | 12        |
| 90 | Solvothermal synthesis of an open-framework zinc chlorophosphate, [C <sub>8</sub> N <sub>4</sub> H <sub>26</sub> ][Zn <sub>3</sub> Cl(HPO <sub>4</sub> ) <sub>3</sub> (PO <sub>4</sub> )], with a layer structure. Journal of Solid State Chemistry, 2004, 177, 2198-2204.   | 1.4 | 11        |

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|-----|--|-----|-----------|
| 91  | Long range B-site cation ordering and Brietâ€™Wignerâ€™Fano line shape of A1g-like Raman mode in Nd1âˆ™xSmx(Mg0.5Ti0.5)O3 microwave dielectric ceramics. Materials Research Bulletin, 2013, 48, 194-199.                         | 2.7 | 11        |
| 92  | Structural, magnetotransport and Hall coefficient studies in ternary Bi2Te2Se, Sb2Te2Se and Bi2Te2S tetradymite topological insulating compounds. Journal of Alloys and Compounds, 2019, 794, 195-202.                           | 2.8 | 11        |
| 93  | Deconvolution of phaseâ€™sizeâ€™strain effects in metal carbide nanocrystals for enhanced hydrogen evolution. Nanoscale, 2020, 12, 15414-15425.  | 2.8 | 11        |
| 94  | Two for one: propylene carbonate co-solvent for high performance aqueous zinc-ion batteries â€™ remedies for persistent issues at both electrodes. Journal of Materials Chemistry A, 2022, 10, 12597-12607.                      | 5.2 | 11        |
| 95  | Use of focused ion beams for making tiny sample holes in gaskets for diamond anvil cells. Review of Scientific Instruments, 2000, 71, 216-219.   | 0.6 | 10        |
| 96  | High-Temperature Phase Transition Studies in a Novel Fast Ion Conductor, Na<sub>2</sub>Cd(SO<sub>4</sub>)<sub>2</sub>, Probed by Raman Spectroscopy. Journal of Physical Chemistry A, 2009, 113, 1505-1507.                      | 1.1 | 10        |
| 97  | Pressure-induced phonon freezing in the <math display="inline">Zn</math> A study via the percolation model. Physical Review B, 2010, 81, .   | 1.1 | 10        |
| 98  | Field-Effect Transistors Based on Thermally Treated Electron Beam-Induced Carbonaceous Patterns. ACS Applied Materials & Interfaces, 2012, 4, 1030-1036.   | 4.0 | 10        |
| 99  | Distinct Phase Formation of Bi<i>RE</i>WO<sub>6</sub> (<i>RE</i> = Laâ€™Yb) Nanoparticles by a One Step Hydrothermal Synthesis and Their Photocatalytic Applications. Crystal Growth and Design, 2018, 18, 1935-1939.            | 1.4 | 10        |
| 100 | Phonon signatures of multiple topological quantum phase transitions in compressed <math>TlBi</math> : A combined experimental and theoretical study. Physical Review B, 2019, 99, .  | 1.1 | 10        |
| 101 | Electronic and vibrational Raman spectroscopy of Nd0.5Sr0.5MnO3 through the phase transitions. Pramana - Journal of Physics, 2005, 64, 119-128.  | 0.9 | 9         |
| 102 | Superionic Phase Transition in KHSO<sub>4</sub>: A Temperature-Dependent Raman Investigation. Journal of Physical Chemistry A, 2010, 114, 10040-10044.   | 1.1 | 9         |
| 103 | Photoluminescence tuning of Na<sub>1âˆ™x</sub>K<sub>x</sub>NdW<sub>2</sub>O<sub>8</sub> (0.0) Tj ETQq1 1 0.784314 rgB Physics, 2014, 16, 18772-18780.  | 1.3 | 9         |
| 104 | Acoustic phonon behavior of PbWO4 and BaWO4 probed by low temperature Brillouin spectroscopy. Solid State Communications, 2015, 202, 78-84.  | 0.9 | 9         |
| 105 | Incipient ferroelectric to a possible ferroelectric transition in Te4+ doped calcium copper titanate (CaCu3Ti4O12) ceramics at low temperature as evidenced by Raman and dielectric spectroscopy. AIP Advances, 2017, 7, 035105. | 0.6 | 9         |
| 106 | Pressure induced topological and structural phase transitions in 1T-TiSe<sub>2</sub>: a Raman study. Journal of Physics Condensed Matter, 2019, 31, 165401.  | 0.7 | 9         |
| 107 | In Situ Neutron Diffraction Studies of LiCe(WO<sub>4</sub>)<sub>2</sub> Polymorphs: Phase Transition and Structureâ€™Property Correlation. Journal of Physical Chemistry C, 2019, 123, 1041-1049.                                | 1.5 | 9         |
| 108 | Secondary phase limited metal-insulator phase transition in chromium nitride thin films. Acta Materialia, 2022, 227, 117737.   | 3.8 | 9         |

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|-----|---|------|-----------|
| 109 | Brillouin scattering from C70 and C60 films: a comparative study of elastic properties. <i>Chemical Physics Letters</i> , 2000, 331, 149-153.   | 1.2  | 8         |
| 110 | Brillouin Scattering Investigation of Solvation Dynamics in Succinonitrile-Lithium Salt Plastic Crystalline Electrolytes. <i>Journal of Physical Chemistry B</i> , 2011, 115, 12356-12361.  | 1.2  | 8         |
| 111 | Thermally Stable Plasmonic Nanocermets Grown on Microengineered Surfaces as Versatile Surface Enhanced Raman Spectroscopy Sensors for Multianalyte Detection. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 22733-22742.                           | 4.0  | 8         |
| 112 | Raman, IR and DFT studies of mechanism of sodium binding to urea catalyst. <i>Journal of Molecular Structure</i> , 2015, 1102, 267-274.   | 1.8  | 8         |
| 113 | Anharmonicity in light scattering by optical phonons in GaAs <sub>1-x</sub> Bi <sub>x</sub> . <i>Journal of Applied Physics</i> , 2016, 119, .  | 1.1  | 8         |
| 114 | Interferroelectric transition as another manifestation of intrinsic size effect in ferroelectrics. <i>Physical Review B</i> , 2016, 94, .   | 1.1  | 8         |
| 115 | Asymmetric Supercapacitors: Covalent Graphene-MOF Hybrids for High-Performance Asymmetric Supercapacitors ( <i>Adv. Mater.</i> 4/2021). <i>Advanced Materials</i> , 2021, 33, 2170028.  | 11.1 | 8         |
| 116 | Temperature-dependent Brillouin scattering studies of surface acoustic modes in Nd <sub>0.5</sub> Sr <sub>0.5</sub> MnO <sub>3</sub> . <i>Solid State Communications</i> , 2003, 127, 209-214.  | 0.9  | 7         |
| 117 | A Brillouin scattering study of La <sub>0.77</sub> Ca <sub>0.23</sub> MnO <sub>3</sub> across the metal-insulator transition. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 4381-4390.   | 0.7  | 7         |
| 118 | Solution processed nanomanufacturing of SERS substrates with random Ag nanoholes exhibiting uniformly high enhancement factors. <i>RSC Advances</i> , 2015, 5, 85019-85027.   | 1.7  | 7         |
| 119 | Evolution mechanism of mesoporous silicon nanopillars grown by metal-assisted chemical etching and nanosphere lithography: correlation of Raman spectra and red photoluminescence. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1. | 1.1  | 7         |
| 120 | Disorder-order phase transition at high pressure in ammonium fluoride. <i>Physical Review B</i> , 2017, 96, .   | 1.1  | 7         |
| 121 | Proton Conduction in a Quaternary Organic Salt: Its Phase Behavior and Related Spectroscopic Studies. <i>Journal of Physical Chemistry C</i> , 2017, 121, 18317-18325.  | 1.5  | 7         |
| 122 | Optical nonlinearity and charge transfer analysis of 4-[(E)-2-(2,4,6-Trinitrophenyl) ethylidene] benzonitrile adsorbed on silver nanoparticles: Computational and experimental investigations. <i>Optics and Laser Technology</i> , 2018, 107, 454-467.       | 2.2  | 7         |
| 123 | Growth of ReS <sub>2</sub> thin films by pulsed laser deposition. <i>Thin Solid Films</i> , 2019, 685, 81-87.   | 0.8  | 7         |
| 124 | Allosteric Transition Induced by Mg <sup>2+</sup> Ion in a Transactivator Monitored by SERS. <i>Journal of Physical Chemistry B</i> , 2014, 118, 5322-5330.   | 1.2  | 6         |
| 125 | Non-trivial network driven modifications of ion transport in an ionic liquid confined inside a polymer system. <i>Molecular Systems Design and Engineering</i> , 2016, 1, 391-401.  | 1.7  | 6         |
| 126 | Analysis of Protein Acetyltransferase Structure-Function Relation by Surface-Enhanced Raman Scattering (SERS): A Tool to Screen and Characterize Small Molecule Modulators. <i>Methods in Molecular Biology</i> , 2013, 981, 239-261.                         | 0.4  | 5         |

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|-----|--|-----|-----------|
| 127 | Octahedral distortion induced magnetic anomalies in LaMn <sub>0.5</sub> Co <sub>0.5</sub> O <sub>3</sub> single crystals. Journal of Applied Physics, 2014, 116, 043903.   | 1.1 | 5         |
| 128 | Role of bonding nature on the temperature dependent erosion behavior of solid materials: A detailed high temperature Raman spectroscopic analysis. Journal of Applied Physics, 2020, 128, .  | 1.1 | 5         |
| 129 | Sb <sub>2</sub> Te <sub>3</sub> /graphite nanocomposite: A comprehensive study of thermal conductivity. Journal of Materiomics, 2021, 7, 545-555.  | 2.8 | 5         |
| 130 | A low-cost Raman spectrometer design used to study Raman scattering from a single-walled carbon nanotube. Journal of Chemical Sciences, 2003, 115, 689-694.<br><i>A comparative study of the electron- and hole-doped compositions of single crystalline</i> | 0.7 | 4         |

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|-----|--|-----|-----------|
| 145 | Interfacial tetrazine click chemistry mediated assembly of multifunctional colloidosomes. Chemical Communications, 2021, 57, 9534-9537.  | 2.2 | 2         |
| 146 | Stability of zeolitic imidazolate frameworks (ZIF-7) under high pressures and its implications on storage applications of ZIFs. Journal of Solid State Chemistry, 2022, 309, 122973.                     | 1.4 | 2         |
| 147 | Effects of Ga doping on the phase transitions of $V_2O_3$ . Physical Review B, 2022, 105, .  | 1.1 | 2         |
| 148 | Superionic Phase Transition in $KHSO_4$ . , 2010, , .  |     | 1         |
| 149 | The Phonon Percolation Scheme for Alloys: Extension to the Entire Lattice Dynamics and Pressure Dependence. Japanese Journal of Applied Physics, 2011, 50, 05FE02.                                       | 0.8 | 1         |
| 150 | Raman Scattering Studies on $LaMn_{0.5}Co_{0.5}O_3$ with Two Distinct Curie Temperatures. , 2011, , .  |     | 1         |
| 151 | A Dual Non-ATP Analogue Inhibitor of Aurora Kinases A and B, Derived from Resorcinol with a Mixed Mode of Inhibition. Chemical Biology and Drug Design, 2016, 87, 958-967.                               | 1.5 | 1         |
| 152 | Publisher's Note: Magnetostructural coupling and magnetodielectric effects in the $A$ -site cation-ordered spinel $LiFeCr_4O_8$ [Phys. Rev. B <b>96</b> , 214439 (2017)]. Physical Review B, 2018, 97, . | 1.1 | 1         |
| 153 | Role of Explicit Solvation in the Simulation of Resonance Raman Spectra within Short-Time Dynamics Approximation. Journal of Physical Chemistry B, 2019, 123, 8800-8813.                                 | 1.2 | 1         |
| 154 | Designing dendronic-Raman markers for sensitive detection using surface-enhanced Raman spectroscopy. RSC Advances, 2019, 9, 28222-28227.   | 1.7 | 1         |
| 155 | Pressure-Induced Loss of Long-Range Structural Order in MFM-300(Al): An X-ray Diffraction and Raman Spectroscopic Study. Journal of Physical Chemistry C, 2021, 125, 15472-15478.                        | 1.5 | 1         |
| 156 | Polaronic Signatures in Doped and Undoped Cesium Lead Halide Perovskite Nanocrystals through a Photoinduced Raman Mode. ACS Applied Materials & Interfaces, 2022, 14, 5567-5577.                         | 4.0 | 1         |
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