

Daizy Philip

List of Publications by Citations

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100
papers

7,572
citations

47
h-index

86
g-index

102
ext. papers

8,373
ext. citations

3.9
avg, IF

6.93
L-index

| # | Paper | IF | Citations |
|-----|---|-----|-----------|
| 100 | Biosynthesis of Au, Ag and Au-Ag nanoparticles using edible mushroom extract. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009 , 73, 374-81 | 4.4 | 589 |
| 99 | Green synthesis of gold and silver nanoparticles using Hibiscus rosa sinensis. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 42, 1417-1424 | 3 | 467 |
| 98 | Catalytic degradation of organic dyes using biosynthesized silver nanoparticles. <i>Micron</i> , 2014 , 56, 54-62 | 2.3 | 317 |
| 97 | Green synthesis of gold nanoparticles using Trigonella foenum-graecum and its size-dependent catalytic activity. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012 , 97, 1-5 | 4.4 | 315 |
| 96 | Murraya Koenigii leaf-assisted rapid green synthesis of silver and gold nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011 , 78, 899-904 | 4.4 | 302 |
| 95 | Studies on surface plasmon resonance and photoluminescence of silver nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008 , 71, 186-90 | 4.4 | 288 |
| 94 | Phytosynthesis of Au, Ag and Au-Ag bimetallic nanoparticles using aqueous extract and dried leaf of Anacardium occidentale. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011 , 79, 254-62 | 4.4 | 284 |
| 93 | Green synthesis of gold nanoparticles using Cinnamomum zeylanicum leaf broth. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009 , 74, 735-9 | 4.4 | 257 |
| 92 | Mangifera indica leaf-assisted biosynthesis of well-dispersed silver nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011 , 78, 327-31 | 4.4 | 219 |
| 91 | Rapid green synthesis of spherical gold nanoparticles using Mangifera indica leaf. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010 , 77, 807-10 | 4.4 | 206 |
| 90 | Honey mediated green synthesis of gold nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009 , 73, 650-3 | 4.4 | 199 |
| 89 | Catalytic degradation of methylene blue using biosynthesized gold and silver nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 118, 526-32 | 4.4 | 195 |
| 88 | Extracellular biosynthesis of gold and silver nanoparticles using Krishna tulsi (Ocimum sanctum) leaf. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011 , 43, 1318-1322 | 3 | 190 |
| 87 | Green synthesis and applications of Au-Ag bimetallic nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 137, 185-92 | 4.4 | 180 |
| 86 | Honey mediated green synthesis of silver nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010 , 75, 1078-81 | 4.4 | 156 |
| 85 | Green synthesis of silver nanoparticles using Macrotyloma uniflorum. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011 , 83, 392-7 | 4.4 | 142 |
| 84 | Synthesis of biogenic hematite (Fe ₂ O ₃) nanoparticles for antibacterial and nanofluid applications. <i>RSC Advances</i> , 2016 , 6, 94206-94217 | 3.7 | 137 |

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|----|---|-----|-----|
| 83 | Green synthesis of well-dispersed gold nanoparticles using <i>Macrotyloma uniflorum</i> . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012 , 85, 99-104 | 4.4 | 136 |
| 82 | FT-IR, FT-Raman and SERS spectra of Vitamin C. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006 , 65, 802-4 | 4.4 | 130 |
| 81 | Synthesis and spectroscopic characterization of gold nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008 , 71, 80-5 | 4.4 | 123 |
| 80 | FT-Raman, FT-IR and surface enhanced Raman scattering spectra of sodium salicylate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2001 , 57, 1561-6 | 4.4 | 102 |
| 79 | Biogenic synthesis of SnO ₂ nanoparticles: evaluation of antibacterial and antioxidant activities. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 134, 372-9 | 4.4 | 98 |
| 78 | Spectroscopic, microscopic and catalytic properties of silver nanoparticles synthesized using <i>Saraca indica</i> flower. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 117, 102-8 | 4.4 | 97 |
| 77 | Rapid green synthesis of palladium nanoparticles using the dried leaf of <i>Anacardium occidentale</i> . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012 , 91, 35-8 | 4.4 | 91 |
| 76 | Facile one-pot synthesis of gold nanoparticles using tannic acid and its application in catalysis. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012 , 44, 1692-1696 | 3 | 88 |
| 75 | Studies on catalytic, antioxidant, antibacterial and anticancer activities of biogenic gold nanoparticles. <i>Journal of Molecular Liquids</i> , 2015 , 212, 331-339 | 6 | 84 |
| 74 | Microwave-assisted rapid synthesis of copper nanoparticles with exceptional stability and their multifaceted applications. <i>Journal of Molecular Liquids</i> , 2016 , 221, 1008-1021 | 6 | 75 |
| 73 | Synthesis of platinum nanoparticles using dried <i>Anacardium occidentale</i> leaf and its catalytic and thermal applications. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 114, 267-71 | 4.4 | 70 |
| 72 | Catalytic and antioxidant properties of biogenic silver nanoparticles synthesized using <i>Areca catechu</i> nut. <i>Journal of Molecular Liquids</i> , 2015 , 207, 231-236 | 6 | 66 |
| 71 | Aqueous synthesis and characterization of CdS, CdS:Zn(2+) and CdS:Cu(2+) quantum dots. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009 , 72, 827-32 | 4.4 | 62 |
| 70 | Vibrational spectroscopic studies and ab initio calculations of 5-methyl-2-(p-fluorophenyl)benzoxazole. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2007 , 67, 744-9 | 4.4 | 61 |
| 69 | Characterization and catalytic activity of gold nanoparticles synthesized using ayurvedic arishtams. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012 , 96, 1025-30 | 4.4 | 60 |
| 68 | Raman, IR and SERS spectra of methyl(2-methyl-4,6-dinitrophenylsulfanyl)ethanoate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2007 , 67, 1313-20 | 4.4 | 60 |
| 67 | FT-IR, FT-Raman and FT-SERS spectra of 4-aminosalicylic acid sodium salt dihydrate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2002 , 58, 281-7 | 4.4 | 58 |
| 66 | Synthesis of biogenic SnO ₂ nanoparticles and evaluation of thermal, rheological, antibacterial and antioxidant activities. <i>Powder Technology</i> , 2015 , 270, 312-319 | 5.2 | 57 |

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|----|---|-----|----|
| 65 | Elettaria cardamomum seed mediated rapid synthesis of gold nanoparticles and its biological activities. <i>OpenNano</i> , 2017 , 2, 1-8 | 8.4 | 55 |
| 64 | Shape tailored green synthesis and catalytic properties of gold nanocrystals. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 118, 793-9 | 4.4 | 55 |
| 63 | Synthesis characterization and catalytic action of hexagonal gold nanoparticles using essential oils extracted from Anacardium occidentale. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012 , 97, 306-10 | 4.4 | 55 |
| 62 | Facile one-pot synthesis of gold and silver nanocatalysts using edible coconut oil. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 111, 154-60 | 4.4 | 54 |
| 61 | Benincasa hispida seed mediated green synthesis of gold nanoparticles and its optical nonlinearity. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012 , 44, 1329-1334 | 3 | 54 |
| 60 | FT-IR, FT-Raman and SERS spectra of pyridine-3-sulfonic acid. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006 , 64, 744-7 | 4.4 | 53 |
| 59 | Degradation of environment pollutant dyes using phytosynthesized metal nanocatalysts. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 135, 632-8 | 4.4 | 52 |
| 58 | Synthesis of monodispersed palladium nanoparticles using tannic acid and its optical non-linearity. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 103, 130-3 | 4.4 | 51 |
| 57 | Studies on catalytic degradation of organic pollutants and anti-bacterial property using biosynthesized CuO nanostructures. <i>Journal of Molecular Liquids</i> , 2017 , 242, 690-700 | 6 | 50 |
| 56 | Biosynthesis of hematite (Fe_2O_3) nanostructures: Size effects on applications in thermal conductivity, catalysis, and antibacterial activity. <i>Journal of Molecular Liquids</i> , 2017 , 242, 537-549 | 6 | 49 |
| 55 | Biosynthesis of Au and Au/Ag alloy nanoparticles using Coleus aromaticus essential oil and evaluation of their catalytic, antibacterial and antiradical activities. <i>Journal of Molecular Liquids</i> , 2016 , 221, 179-189 | 6 | 49 |
| 54 | Catalytically and biologically active silver nanoparticles synthesized using essential oil. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 132, 743-50 | 4.4 | 48 |
| 53 | IR, Raman and SERS studies of methyl salicylate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2007 , 66, 959-63 | 4.4 | 47 |
| 52 | Studies on optical absorption and photoluminescence of thioglycerol-stabilized CdS quantum dots. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008 , 71, 1402-7 | 4.4 | 46 |
| 51 | Vibrational and Surface Enhanced Raman Scattering Spectra of Sulfamic Acid. <i>Journal of Solid State Chemistry</i> , 1995 , 116, 217-223 | 3.3 | 45 |
| 50 | Size tunable biosynthesis and luminescence quenching of nanostructured hematite (Fe_2O_3) for catalytic degradation of organic pollutants. <i>Journal of Physics and Chemistry of Solids</i> , 2019 , 124, 221-234 | 3.9 | 43 |
| 49 | Studies on optical absorption and photoluminescence of thioglycerol-stabilized ZnS nanoparticles. <i>Optical Materials</i> , 2009 , 32, 169-175 | 3.3 | 41 |
| 48 | Dye sensitized solar cells using catalytically active CuO-ZnO nanocomposite synthesized by single step method. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 200, 116-126 | 4.4 | 38 |

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| 47 | Essential oil mediated synthesis of silver nanocrystals for environmental, anti-microbial and antioxidant applications. <i>Materials Science and Engineering C</i> , 2016 , 61, 429-36 | 8.3 | 38 |
| 46 | Synthesis, characterization and SERS activity of Au-Ag nanorods. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008 , 70, 780-4 | 4.4 | 38 |
| 45 | IR, Raman and SERS spectra of 5-sulphosalicylic acid dihydrate. <i>Journal of Raman Spectroscopy</i> , 2007 , 38, 309-315 | 2.3 | 35 |
| 44 | Phytosynthesis and applications of bioactive SnO ₂ nanoparticles. <i>Materials Characterization</i> , 2015 , 101, 97-105 | 3.9 | 32 |
| 43 | Vibrational spectroscopic studies and ab initio calculations of 2-cyanophenylisocyanid dichloride. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2007 , 67, 1055-9 | 4.4 | 32 |
| 42 | IR and polarized Raman spectra of Na ₄ P ₂ O ₇ · 10H ₂ O. <i>Journal of Raman Spectroscopy</i> , 1990 , 21, 523-524 | 2.3 | 32 |
| 41 | IR, Raman and SERS spectra of disodium terephthalate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2007 , 68, 817-22 | 4.4 | 28 |
| 40 | Vibrational spectroscopic studies and ab initio calculations of sulfanilamide. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006 , 65, 155-8 | 4.4 | 27 |
| 39 | Polarized Raman and infrared spectra of (NH ₃) ₂ (CH ₂) ₂ HXO ₄ (X =P, As). <i>Journal of Raman Spectroscopy</i> , 1990 , 21, 211-214 | 2.3 | 25 |
| 38 | Optical, magnetic, electrical, and chemo-catalytic properties of bio-synthesized CuO/NiO nanocomposites. <i>Journal of Physics and Chemistry of Solids</i> , 2020 , 136, 109155 | 3.9 | 24 |
| 37 | Potential dependent SERS profile of sulfanilamide on silver electrode. <i>Journal of Raman Spectroscopy</i> , 2006 , 37, 487-491 | 2.3 | 21 |
| 36 | Optical properties of citrate-stabilized CdS nanoparticles. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009 , 41, 1727-1731 | 3 | 20 |
| 35 | Vibrational spectra of melamine diborate, C ₃ N ₆ H ₆ O ₃ B ₃ . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2002 , 58, 1545-51 | 4.4 | 20 |
| 34 | Raman and IR spectra of Alanine and sarcosine monophosphates. <i>Journal of Raman Spectroscopy</i> , 1991 , 22, 423-425 | 2.3 | 19 |
| 33 | Facile synthesis of SnO ₂ /NiO nano-composites: Structural, magnetic and catalytic properties. <i>Ceramics International</i> , 2020 , 46, 786-794 | 5.1 | 18 |
| 32 | Effect of Ni ²⁺ doping on chemocatalytic and supercapacitor performance of biosynthesized nanostructured CuO. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 21180-21193 | 2.1 | 18 |
| 31 | Vibrational spectroscopic studies and ab initio calculations of phenyl phosphate disodium salt. <i>Journal of Raman Spectroscopy</i> , 2010 , 41, 113-119 | 2.3 | 17 |
| 30 | Potential dependent SERS profile of sulfanilic acid on silver electrode. <i>Journal of Raman Spectroscopy</i> , 2006 , 37, 853-857 | 2.3 | 17 |

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|----|--|-----|----|
| 29 | Facile one-pot synthesis of crystalline palladium nanoparticles with exceptional catalytic and antiradical activities. <i>Materials Chemistry and Physics</i> , 2016 , 170, 1-11 | 4.4 | 16 |
| 28 | IR and polarized Raman spectra of anilinium hydrogenphosphite, $C_6H_5NH_3^+ HPO_3H^-$ <i>Journal of Raman Spectroscopy</i> , 2000 , 31, 1067-1071 | 2.3 | 16 |
| 27 | Simulation studies on the responses of ZnO-CuO/CNT nanocomposite based SAW sensor to various volatile organic chemicals. <i>Journal of Science: Advanced Materials and Devices</i> , 2019 , 4, 125-131 | 4.2 | 15 |
| 26 | IR, Raman and SERS spectra of 3,5-dinitrosalicylic acid. <i>Journal of Raman Spectroscopy</i> , 2007 , 38, 323-331 | 2.3 | 15 |
| 25 | Potential-dependent SERS profile of orthonilic acid on silver electrode. <i>Journal of Raman Spectroscopy</i> , 2006 , 37, 1265-1271 | 2.3 | 15 |
| 24 | Infrared, Polarized Raman, and SERS Spectra of Borax. <i>Journal of Solid State Chemistry</i> , 1994 , 113, 157-162 | 2.3 | 15 |
| 23 | IR and raman spectra of two layered aluminium phosphates $Co(en)_3Al_3P_4O_{16} \cdot 3H_2O$ and. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2000 , 56, 2715-23 | 4.4 | 13 |
| 22 | IR and single-crystal Raman spectra of $Te(OH)_6 \cdot 2CO(NH_2)_2$. <i>Journal of Raman Spectroscopy</i> , 1990 , 21, 521-522 | 2.3 | 13 |
| 21 | Nanostructured copper (II) oxide and its novel reduction to stable copper nanoparticles. <i>Journal of Physics and Chemistry of Solids</i> , 2019 , 124, 250-260 | 3.9 | 13 |
| 20 | Synthesis of nanostructured CeO_2 by chemical and biogenic methods: Optical properties and bioactivity. <i>Ceramics International</i> , 2020 , 46, 14048-14055 | 5.1 | 12 |
| 19 | Infrared, Polarized Raman, and SERS Spectra of Betaine Hydrogen Oxalate Monohydrate. <i>Journal of Solid State Chemistry</i> , 1995 , 114, 129-137 | 3.3 | 11 |
| 18 | SERS Spectra of 2-Aminophenol in Silver Colloids. <i>Journal of Solid State Chemistry</i> , 1995 , 116, 427-431 | 3.3 | 11 |
| 17 | Influence of transition metal ion Ni^{2+} on optical, electrical, magnetic and antibacterial properties of phyto-synthesized CuO nanostructure. <i>Optical and Quantum Electronics</i> , 2018 , 50, 1 | 2.4 | 11 |
| 16 | Infrared, Raman, and SERS Spectra of Betaine Arsenate. <i>Spectroscopy Letters</i> , 1995 , 28, 11-28 | 1.1 | 10 |
| 15 | Infrared and Raman spectra of aquamolybdenum (VI) oxide hydrate ($MoO_3 \cdot 7H_2O$) 1988 , 30, 129-133 | | 10 |
| 14 | Vibrational spectra of thallium and rubidium phosphotellurates. <i>Journal of Raman Spectroscopy</i> , 1989 , 20, 637-638 | 2.3 | 9 |
| 13 | Tannic acid mediated synthesis of nanostructured NiO and SnO_2 for catalytic degradation of methylene blue. <i>Optical and Quantum Electronics</i> , 2020 , 52, 1 | 2.4 | 9 |
| 12 | Nanostructured ZnO with bio-capping for nanofluid and natural dye based solar cell applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 16527-16539 | 2.1 | 8 |

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| 11 | Spectroscopic investigations and computational study of sulfur trioxide-pyridine complex. <i>Journal of Raman Spectroscopy</i> , 2011 , 42, 1812-1819 | 2.3 | 8 |
| 10 | Biogenic synthesis of nanostructured Gd ₂ O ₃ : Structural, optical and bioactive properties. <i>Ceramics International</i> , 2019 , 45, 21947-21952 | 5.1 | 7 |
| 9 | Phytochemical-capped biogenic gold nanocrystals with chemocatalytic and radical scavenging potential. <i>Journal of Molecular Liquids</i> , 2014 , 200, 390-397 | 6 | 7 |
| 8 | Studies on bandgap tuning of visible light active heterojunction CuO/ZnO nanocomposites for DSSC application. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 21002-21013 | 2.1 | 7 |
| 7 | Green synthesis of CeO ₂ nanostructures by using Morus nigra fruit extract and its antidiabetic activity 2019 , | | 3 |
| 6 | Vibrational analysis of Ag ₃ (PO ₂ NH) ₃ , Na ₃ (PO ₂ NH) ₃ x H ₂ O, Na ₃ (PO ₂ NH) ₃ x 4H ₂ O,. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2001 , 57A, 959-69 | 4.4 | 3 |
| 5 | IR and polarized Raman spectra of (NH ₃) ₂ (CH ₂) ₂ HPO ₄ . <i>Journal of Solid State Chemistry</i> , 1989 , 83, 198-203 | 3 | 3 |
| 4 | Raman and IR spectra of Te(OH) ₆ ·Na ₃ P ₃ O ₉ ·6H ₂ O. <i>Journal of Raman Spectroscopy</i> , 1991 , 22, 45-46 | 2.3 | 2 |
| 3 | Catalytic and cytotoxic activity of PEG capped gadolinium oxide nanoparticles 2019 , | | 1 |
| 2 | Polarized Raman and infrared reflection spectra of Cu(HCOO) ₂ · 2(NH ₂) ₂ CO · 2H ₂ O. <i>Journal of Solid State Chemistry</i> , 1990 , 88, 520-527 | 3.3 | 1 |
| 1 | Synthesis of CeO ₂ nanostructures with its exceptional biological and chemocatalytic activities: a comparative study. <i>Bulletin of Materials Science</i> , 2021 , 44, 1 | 1.7 | 0 |