

Daizy Philip

List of Publications by Year in descending order

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102
papers

9,329
citations

34016

52
h-index

38300

95
g-index

102
all docs

102
docs citations

102
times ranked

9531
citing authors

#	ARTICLE	IF	CITATIONS
1	Biosynthesis of Au, Ag and Au@Ag nanoparticles using edible mushroom extract. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009, 73, 374-381.	2.0	683
2	Green synthesis of gold and silver nanoparticles using <i>Hibiscus rosa sinensis</i> . <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 1417-1424.	1.3	547
3	Catalytic degradation of organic dyes using biosynthesized silver nanoparticles. <i>Micron</i> , 2014, 56, 54-62.	1.1	401
4	Green synthesis of gold nanoparticles using <i>Trigonella foenum-graecum</i> and its size-dependent catalytic activity. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 97, 1-5.	2.0	386
5	<i>Murraya Koenigii</i> leaf-assisted rapid green synthesis of silver and gold nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 78, 899-904.	2.0	363
6	Studies on surface plasmon resonance and photoluminescence of silver nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008, 71, 186-190.	2.0	357
7	Phytosynthesis of Au, Ag and Au@Ag bimetallic nanoparticles using aqueous extract and dried leaf of <i>Anacardium occidentale</i> . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 79, 254-262.	2.0	341
8	Green synthesis of gold nanoparticles using <i>Cinnamomum zeylanicum</i> leaf broth. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009, 74, 735-739.	2.0	295
9	Catalytic degradation of methylene blue using biosynthesized gold and silver nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 118, 526-532.	2.0	255
10	Rapid green synthesis of spherical gold nanoparticles using <i>Mangifera indica</i> leaf. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010, 77, 807-810.	2.0	246
11	<i>Mangifera Indica</i> leaf-assisted biosynthesis of well-dispersed silver nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 78, 327-331.	2.0	246
12	Honey mediated green synthesis of gold nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009, 73, 650-653.	2.0	243
13	Green synthesis and applications of Au@Ag bimetallic nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 137, 185-192.	2.0	233
14	Extracellular biosynthesis of gold and silver nanoparticles using Krishna tulsi (<i>Ocimum sanctum</i>) leaf. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011, 43, 1318-1322.	1.3	225
15	Synthesis of biogenic hematite (Fe_2O_3) nanoparticles for antibacterial and nanofluid applications. <i>RSC Advances</i> , 2016, 6, 94206-94217.	1.7	214
16	Honey mediated green synthesis of silver nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010, 75, 1078-1081.	2.0	205
17	FT-IR, FT-Raman and SERS spectra of Vitamin C. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006, 65, 802-804.	2.0	187
18	Green synthesis of silver nanoparticles using <i>Macrotyloma uniflorum</i> . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 83, 392-397.	2.0	183

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19	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.	2.0	164
20	Synthesis and spectroscopic characterization of gold nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008, 71, 80-85.	2.0	137
21	Biogenic synthesis of SnO ₂ nanoparticles: Evaluation of antibacterial and antioxidant activities. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 134, 372-379.	2.0	125
22	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.	1.3	119
23	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, 102-108.	2.0	116
24	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, 1561-1566.	2.0	112
25	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, 35-38.	2.0	111
26	Studies on catalytic, antioxidant, antibacterial and anticancer activities of biogenic gold nanoparticles. <i>Journal of Molecular Liquids</i> , 2015, 212, 331-339.	2.3	111
27	Microwave-assisted rapid synthesis of copper nanoparticles with exceptional stability and their multifaceted applications. <i>Journal of Molecular Liquids</i> , 2016, 221, 1008-1021.	2.3	104
28	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, 267-271.	2.0	82
29	Biosynthesis of hematite ($\alpha\text{-Fe}_2\text{O}_3$) nanostructures: Size effects on applications in thermal conductivity, catalysis, and antibacterial activity. <i>Journal of Molecular Liquids</i> , 2017, 242, 537-549.	2.3	82
30	<i>Elettaria cardamomum</i> seed mediated rapid synthesis of gold nanoparticles and its biological activities. <i>OpenNano</i> , 2017, 2, 1-8.	1.8	77
31	Synthesis of biogenic SnO ₂ nanoparticles and evaluation of thermal, rheological, antibacterial and antioxidant activities. <i>Powder Technology</i> , 2015, 270, 312-319.	2.1	72
32	Characterization and catalytic activity of gold nanoparticles synthesized using ayurvedic arishtams. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 96, 1025-1030.	2.0	71
33	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.	2.3	71
34	Biosynthesis of Au and Au/Ag alloy nanoparticles using <i>Coleus aromaticus</i> essential oil and evaluation of their catalytic, antibacterial and antiradical activities. <i>Journal of Molecular Liquids</i> , 2016, 221, 179-189.	2.3	71
35	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, 281-287.	2.0	67
36	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.	2.3	67

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37	Synthesis characterization and catalytic action of hexagonal gold nanoparticles using essential oils extracted from <i>Anacardium occidentale</i> . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 97, 306-310.	2.0	66
38	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, 827-832.	2.0	65
39	Size tunable biosynthesis and luminescence quenching of nanostructured hematite (α -Fe ₂ O ₃) for catalytic degradation of organic pollutants. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 124, 221-234.	1.9	64
40	<i>Benincasa hispida</i> seed mediated green synthesis of gold nanoparticles and its optical nonlinearity. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012, 44, 1329-1334.	1.3	63
41	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, 130-133.	2.0	63
42	Catalytically and biologically active silver nanoparticles synthesized using essential oil. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 132, 743-750.	2.0	63
43	FT-IR, FT-Raman and SERS spectra of pyridine-3-sulfonic acid. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006, 64, 744-747.	2.0	62
44	Shape tailored green synthesis and catalytic properties of gold nanocrystals. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 118, 793-799.	2.0	62
45	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, 744-749.	2.0	61
46	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, 1313-1320.	2.0	61
47	Degradation of environment pollutant dyes using phytosynthesized metal nanocatalysts. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 135, 632-638.	2.0	59
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.	2.0	59
49	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, 154-160.	2.0	58
50	Vibrational and Surface Enhanced Raman Scattering Spectra of Sulfamic Acid. <i>Journal of Solid State Chemistry</i> , 1995, 116, 217-223.	1.4	57
51	IR, Raman and SERS studies of methyl salicylate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2007, 66, 959-963.	2.0	56
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, 1402-1407.	2.0	54
53	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.	1.9	51
54	Essential oil mediated synthesis of silver nanocrystals for environmental, anti-microbial and antioxidant applications. <i>Materials Science and Engineering C</i> , 2016, 61, 429-436.	3.8	50

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55	IR, Raman and SERS spectra of disodium terephthalate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2007, 68, 817-822.	2.0	45
56	Studies on optical absorption and photoluminescence of thioglycerol-stabilized ZnS nanoparticles. <i>Optical Materials</i> , 2009, 32, 169-175.	1.7	44
57	Phytosynthesis and applications of bioactive SnO ₂ nanoparticles. <i>Materials Characterization</i> , 2015, 101, 97-105.	1.9	43
58	IR, Raman and SERS spectra of 5-sulphosalicylic acid dihydrate. <i>Journal of Raman Spectroscopy</i> , 2007, 38, 309-315.	1.2	42
59	Synthesis, characterization and SERS activity of Au@Ag nanorods. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008, 70, 780-784.	2.0	40
60	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.	1.2	37
61	Facile synthesis of SnO ₂ /NiO nano-composites: Structural, magnetic and catalytic properties. <i>Ceramics International</i> , 2020, 46, 786-794.	2.3	33
62	Vibrational spectroscopic studies and ab initio calculations of 2-cyanophenylisocyanid dichloride. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2007, 67, 1055-1059.	2.0	32
63	Vibrational spectroscopic studies and ab initio calculations of sulfanilamide. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006, 65, 155-158.	2.0	31
64	Vibrational spectra of melamine diborate, C ₃ N ₆ H ₆ 2H ₃ BO ₃ . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2002, 58, 1545-1551.	2.0	28
65	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.	1.5	28
66	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.	1.2	25
67	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.	1.1	24
68	Potential dependent SERS profile of sulfanilamide on silver electrode. <i>Journal of Raman Spectroscopy</i> , 2006, 37, 487-491.	1.2	22
69	Potential-dependent SERS profile of orthanilic acid on silver electrode. <i>Journal of Raman Spectroscopy</i> , 2006, 37, 1265-1271.	1.2	22
70	Optical properties of citrate-stabilized CdS nanoparticles. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009, 41, 1727-1731.	1.3	21
71	Synthesis of nanostructured CeO ₂ by chemical and biogenic methods: Optical properties and bioactivity. <i>Ceramics International</i> , 2020, 46, 14048-14055.	2.3	21
72	Facile one-pot synthesis of crystalline palladium nanoparticles with exceptional catalytic and antiradical activities. <i>Materials Chemistry and Physics</i> , 2016, 170, 1-11.	2.0	20

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73	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.	1.5	20
74	Raman and IR spectra of Î ² -alanine and sarcosine monophosphates. <i>Journal of Raman Spectroscopy</i> , 1991, 22, 423-425.	1.2	19
75	Potential dependent SERS profile of sulfanilic acid on silver electrode. <i>Journal of Raman Spectroscopy</i> , 2006, 37, 853-857.	1.2	19
76	Infrared, Polarized Raman, and SERS Spectra of Borax. <i>Journal of Solid State Chemistry</i> , 1994, 113, 157-162.	1.4	18
77	IR and polarized Raman spectra of anilinium hydrogenphosphite, C ₆ H ₅ NH ₃ ⁺ HPO ₃ H ⁻ . <i>Journal of Raman Spectroscopy</i> , 2000, 31, 1067-1071.	1.2	17
78	Vibrational spectroscopic studies and <i>ab initio</i> calculations of phenyl phosphate disodium salt. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 113-119.	1.2	17
79	IR, Raman and SERS spectra of 3,5-dinitrosalicylic acid. <i>Journal of Raman Spectroscopy</i> , 2007, 38, 323-331.	1.2	16
80	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.	1.9	16
81	IR and Raman spectra of two layered aluminium phosphates Co(en) ₃ Al ₃ P ₄ O ₁₆ ·3H ₂ O and [NH ₄] ₃ [Co(NH ₃) ₆] ₃ [Al ₂ (PO ₄) ₄] ₂ ·2H ₂ O. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2000, 56, 2715-2723.	2.0	15
82	SERS Spectra of 2-Aminophenol in Silver Colloids. <i>Journal of Solid State Chemistry</i> , 1995, 116, 427-431.	1.4	14
83	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.	1.1	14
84	IR and single-crystal Raman spectra of Te(OH) ₆ · 2CO(NH ₂) ₂ . <i>Journal of Raman Spectroscopy</i> , 1990, 21, 521-522.	1.2	13
85	Infrared, Polarized Raman, and SERS Spectra of Betaine Hydrogen Oxalate Monohydrate. <i>Journal of Solid State Chemistry</i> , 1995, 114, 129-137.	1.4	13
86	Spectroscopic investigations and computational study of sulfur trioxideâ€“pyridine complex. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 1812-1819.	1.2	13
87	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.	1.5	13
88	Infrared, Raman, and SERS Spectra of Betaine Arsenate. <i>Spectroscopy Letters</i> , 1995, 28, 11-28.	0.5	12
89	Infrared and Raman spectra of aquamolybdenum (VI) oxide hydrate (MoO ₃ ·2H ₂ O). <i>Pramana - Journal of Physics</i> , 1988, 30, 129-133.	0.9	11
90	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.	1.1	11

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91	Biogenic synthesis of nanostructured Gd ₂ O ₃ : Structural, optical and bioactive properties. <i>Ceramics International</i> , 2019, 45, 21947-21952.	2.3	11
92	Vibrational spectra of thallium and rubidium phosphotellurates. <i>Journal of Raman Spectroscopy</i> , 1989, 20, 637-638.	1.2	9
93	Phytochemical-capped biogenic gold nanocrystals with chemocatalytic and radical scavenging potential. <i>Journal of Molecular Liquids</i> , 2014, 200, 390-397.	2.3	9
94	Green synthesis of CeO ₂ nanostructures by using <i>Morus nigra</i> fruit extract and its antidiabetic activity. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	9
95	Raman and IR spectra of Te(OH) ₆ ·2Na ₃ P ₃ O ₉ ·6H ₂ O. <i>Journal of Raman Spectroscopy</i> , 1991, 22, 45-46.	1.2	5
96	IR and polarized Raman spectra of (NH ₃) ₂ (CH ₂) ₂ HPO ₄ . <i>Journal of Solid State Chemistry</i> , 1989, 83, 198-201.	1.4	3
97	Vibrational analysis of Ag ₃ (PO ₂ NH) ₃ , Na ₃ (PO ₂ NH) ₃ ·H ₂ O, Na ₃ (PO ₂ NH) ₃ ·4H ₂ O, [C(NH ₂) ₃] ₃ (PO ₂ NH) ₃ ·H ₂ O and (NH ₄) ₄ (PO ₂ NH) ₄ ·4H ₂ O. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2001, 57, 959-969.	2.0	3
98	Synthesis of CeO ₂ nanostructures with its exceptional biological and chemocatalytic activities: a comparative study. <i>Bulletin of Materials Science</i> , 2021, 44, 1.	0.8	3
99	Antifungal activities of biogenic Au and CeO ₂ nanoparticles. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	2
100	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.	1.4	1
101	Infrared, Single Crystal Raman, and SERS Spectra of CH ₃ NH ₃ NaSeO ₄ ·6X ₂ O and NaNH ₄ SeO ₄ ·2X ₂ O (X =) Tj ETQq1 1 0.784314 mgE	1.4	1
102	Catalytic and cytotoxic activity of PEG capped gadolinium oxide nanoparticles. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	1