

Umadevi Mahalingam

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134
papers

2,782
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28
h-index

47
g-index

139
ext. papers

3,175
ext. citations

3.5
avg, IF

5.8
L-index

#	Paper	IF	Citations
134	Antibacterial and catalytic activities of green synthesized silver nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 135, 373-8	4.4	216
133	Synthesis of monodispersed silver nanoparticles using Hibiscus cannabinus leaf extract and its antimicrobial activity. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 101, 184-90	4.4	183
132	Antibacterial activities of green synthesized gold nanoparticles. <i>Materials Letters</i> , 2014 , 120, 122-125	3.3	128
131	Structural, morphological and optical properties of MgO nanoparticles for antibacterial applications. <i>Materials Letters</i> , 2016 , 166, 19-22	3.3	122
130	Silver and gold nanoparticles for sensor and antibacterial applications. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 128, 37-45	4.4	120
129	Synthesis, characterization and photocatalytic activity of CuO nanoflowers. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 109, 133-7	4.4	98
128	Green synthesis and characterization of silver nanoparticles from Moringa oleifera flower and assessment of antimicrobial and sensing properties. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020 , 205, 111836	6.7	77
127	A Novel Synthesis of Malic Acid Capped Silver Nanoparticles using Solanum lycopersicums Fruit Extract. <i>Journal of Materials Science and Technology</i> , 2013 , 29, 317-322	9.1	60
126	Antimicrobial and catalytic activities of biosynthesized gold, silver and palladium nanoparticles from Solanum nigurum leaves. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020 , 202, 111713	6.7	55
125	Fluorescence quenching and photocatalytic degradation of textile dyeing waste water by silver nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 127, 115-21	4.4	54
124	Nonlinear optical absorption in silver nanosol. <i>Journal Physics D: Applied Physics</i> , 2003 , 36, 1242-1245	3	52
123	Effect of silver nano particles on the fluorescence quantum yield of Rhodamine 6G determined using dual beam thermal lens method. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2004 , 60, 1077-83	4.4	52
122	Surface plasmon resonance optical sensor and antibacterial activities of biosynthesized silver nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 121, 596-604	4.4	51
121	Antibacterial and electrochemical activities of silver, gold, and palladium nanoparticles dispersed amorphous carbon composites. <i>Applied Surface Science</i> , 2019 , 479, 96-104	6.7	44
120	Structural, morphological and optical studies of l-cysteine modified silver nanoparticles and its application as a probe for the selective colorimetric detection of Hg(2+). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 133, 265-71	4.4	42
119	Solvatochromic study of 1,2-dihydroxyanthraquinone in neat and binary solvent mixtures. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008 , 69, 148-55	4.4	41
118	Vibrational spectral studies of L-methionine L-methioninium perchlorate monohydrate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2004 , 60, 2643-51	4.4	39

117	Synthesis of silver nanoparticle using D. carota extract. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2012 , 3, 025008	1.6	38
116	Chemical synthesis of silver nanoparticles for solar cell applications. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 924-927		38
115	Novel combustion method to prepare octahedral NiO nanoparticles and its photocatalytic activity. <i>Materials Research Bulletin</i> , 2013 , 48, 4248-4254	5.1	37
114	Evaluation of the immunomodulatory and DNA protective activities of the shoots of Cynodon dactylon. <i>Journal of Ethnopharmacology</i> , 2009 , 123, 181-4	5	37
113	A novel combustion method to prepare CuO nanorods and its antimicrobial and photocatalytic activities. <i>Powder Technology</i> , 2013 , 235, 783-786	5.2	35
112	Antibacterial activities of Hibiscus cannabinus stem-assisted silver and gold nanoparticles. <i>Materials Letters</i> , 2014 , 131, 194-197	3.3	33
111	Studies on Structural, Optical and Electrical Properties of ZnO Thin Films Prepared by the Spray Pyrolysis Method. <i>International Journal of Materials Engineering</i> , 2012 , 2, 12-17	1	33
110	Infrared and Raman spectroscopic studies of l-valine l-valinium perchlorate monohydrate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2005 , 62, 630-6	4.4	31
109	Improved waste water treatment by bio-synthesized Graphene Sand Composite. <i>Journal of Environmental Management</i> , 2015 , 162, 299-305	7.9	30
108	Infrared and Raman spectral studies of L-ornithine nitrate. <i>Journal of Raman Spectroscopy</i> , 2003 , 34, 806-812	3.2	29
107	Synthesis, characterization and SERS activity of biosynthesized silver nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 115, 409-15	4.4	28
106	Vibrational spectral studies of (Alanine) Alaninium nitrate. <i>Journal of Raman Spectroscopy</i> , 2004 , 35, 956-960	2.3	26
105	Multifocal osseous involvement as the sole manifestation of Rosai-Dorfman disease. <i>Skeletal Radiology</i> , 2005 , 34, 658-64	2.7	26
104	SERS detection of polychlorinated biphenyls using Cyclodextrin functionalized gold nanoparticles on agriculture land soil. <i>Journal of Raman Spectroscopy</i> , 2015 , 46, 377-383	2.3	25
103	Photocatalytic degradation and antimicrobial applications of F-doped MWCNTs/TiO ₂ composites. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 139, 290-5	4.4	24
102	Fluorescence quenching of 1,4-dihydroxy-2,3-dimethyl-9,10-anthraquinone by silver nanoparticles: size effect. <i>Journal of Fluorescence</i> , 2009 , 19, 3-10	2.4	23
101	Spectral investigations of solvatochromism and preferential solvation on 1,4-dihydroxy-2,3-dimethyl-9,10-anthraquinone. <i>Journal of Fluorescence</i> , 2008 , 18, 1139-49	2.4	23
100	One-Pot Fabrication and Characterization of Silver Nanoparticles Using Solanum lycopersicum: An Eco-Friendly and Potent Control Tool against Rose Aphid, Macrosiphum rosae. <i>Journal of Nanoscience</i> , 2016 , 2016, 1-7		23

99	Spectral investigations on 2,3-bis(chloromethyl)-1,4- anthraquinone: solvent effects and host-guest interactions. <i>Journal of Fluorescence</i> , 2006 , 16, 569-79	2.4	22
98	FT-IR and FT-Raman spectral studies of bis(L-proline) hydrogen nitrate and bis(L-proline) hydrogen perchlorate. <i>Journal of Raman Spectroscopy</i> , 2005 , 36, 950-961	2.3	22
97	Synthesis and characterization of novel LiFeBO ₃ /C cathodes for lithium batteries. <i>Ionics</i> , 2012 , 18, 27-30	2.7	21
96	Synthesis, characterization and photocatalytic activity of fluorine doped TiO ₂ nanoflakes synthesized using solid state reaction method. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 120, 365-9	4.4	21
95	Synergistic effects of copper and nickel bimetallic nanoparticles for enhanced bacterial inhibition. <i>Materials Letters</i> , 2018 , 211, 82-86	3.3	20
94	Spectral investigations of preferential solvation and solute-solvent interactions of 1,4-dimethylamino anthraquinone in CH ₂ Cl ₂ /C ₂ H ₅ OH mixtures. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2007 , 67, 910-5	4.4	20
93	Spectral investigations on 2-methyl-1,4-naphthoquinone: solvent effects, host-guest interactions and SERS. <i>Journal of Raman Spectroscopy</i> , 2003 , 34, 112-120	2.3	20
92	Environmental Effect on the Laser-Excited Fluorescence Spectra of Methylene Blue and Methylene Green Dyes. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2001 , 40, 203-206		19
91	Structural, morphological and optical properties of chelating ligand passivated ZnSe nanorods. <i>Materials Letters</i> , 2013 , 108, 5-8	3.3	18
90	Synthesis and characterization of zinc oxide nanostructures and its assessment on enhanced bacterial inhibition and photocatalytic degradation. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020 , 210, 111965	6.7	18
89	Structural and spectroscopic study of adsorption of naphthalene on silver. <i>Journal of Molecular Structure</i> , 2015 , 1079, 155-162	3.4	17
88	Synthesis and Characterization of Silver/PVA Nanocomposite for Sensor and Antibacterial Applications. <i>Journal of Cluster Science</i> , 2014 , 25, 639-650	3	17
87	Synergistic effect of MgO/Ag co-doping on TiO ₂ for efficient antibacterial agents. <i>Materials Letters</i> , 2016 , 184, 82-87	3.3	17
86	SERS investigations of 2,3-dibromo-1,4-naphthoquinone on silver nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 105, 218-22	4.4	16
85	Influence of silver nanoparticles on 2,3-bis(chloromethyl)anthracene-1,4,9,10-tetraone. <i>Journal of Fluorescence</i> , 2010 , 20, 153-61	2.4	16
84	Solvatochromism, preferential solvation of 2,3-bis(chloromethyl)-1,4-anthraquinone in binary mixtures and the molecular recognition towards p-tert-butyl-calix[4]arene. <i>Journal of Fluorescence</i> , 2007 , 17, 528-39	2.4	16
83	Graphene boosted silver nanoparticles as surface enhanced Raman spectroscopic sensors and photocatalysts for removal of standard and industrial dye contaminants. <i>Sensors and Actuators B: Chemical</i> , 2019 , 281, 679-688	8.5	16
82	Antimicrobial, electrochemical and photo catalytic activities of Zn doped Fe ₃ O ₄ nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 6040-6050	2.1	15

81	Synthesis and characterization of monodispersed silver nanoparticles. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2012 , 3, 035013	1.6	15
80	Spectroscopic investigations on the orientation of 1,4-dibromonaphthalene on silver nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 116, 236-41	4.4	15
79	Enhanced photocatalytic, antimicrobial activity and photovoltaic characteristics of fluorine doped TiO ₂ synthesized under ultrasound irradiation. <i>Journal of Fluorine Chemistry</i> , 2013 , 156, 209-213	2.1	14
78	Infrared and Raman spectroscopic studies of L-methioninium nitrate. <i>Journal of Raman Spectroscopy</i> , 2004 , 35, 907-913	2.3	14
77	Vibrational spectral analysis of L-lysine L-lysinium dichloride nitrate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2005 , 61, 3124-30	4.4	14
76	Application of G-SERS for the efficient detection of toxic dye contaminants in textile effluents using gold/graphene oxide substrates. <i>Journal of Molecular Liquids</i> , 2019 , 273, 203-214	6	14
75	l-Phenylalanine functionalized silver nanoparticles: Photocatalytic and nonlinear optical applications. <i>Optical Materials</i> , 2015 , 42, 152-159	3.3	13
74	Green Synthesized Gold Nanoparticles as a Probe for the Detection of Fe ³⁺ Ions in Water. <i>Journal of Cluster Science</i> , 2014 , 25, 969-978	3	13
73	Investigations on 1,5-diaminoanthraquinone by laser excitation. <i>Journal of Raman Spectroscopy</i> , 2003 , 34, 13-20	2.3	12
72	Environmental photochemistry by plasmonic semiconductor decorated GO nanocomposites: SERS detection and visible light driven degradation of aromatic dyes. <i>Applied Surface Science</i> , 2019 , 473, 864-872	6.7	12
71	Structural, morphological and optical properties of CTAB capped ZnSe nanoflakes. <i>Materials Letters</i> , 2012 , 86, 129-131	3.3	11
70	Adsorption of N-(1-(2-bromophenyl)-2-(2-nitrophenyl)ethyl)-4-methylbenzenesulfonamide on silver nanoparticles: SERS investigation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 138, 234-40	4.4	10
69	Influence of Plasmonic Silver Nanoparticles on Fluorescence Quenching of 1,4-dihydroxy-3-methylanthracene-9,10-dione. <i>Plasmonics</i> , 2013 , 8, 859-867	2.4	10
68	Investigations of molecular interactions in propionic acid-N,N-dimethyl formamide binary system--FTIR study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009 , 73, 815-22	4.4	10
67	Enhanced bioactivity of Fe ₃ O ₄ -Au nanocomposites in a comparative antibacterial study. <i>Materials Letters</i> , 2020 , 258, 126795	3.3	10
66	Built-in Electric Field Assisted Photocatalytic Dye Degradation and Photoelectrochemical Water Splitting of Ferroelectric Ce Doped BaTiO ₃ Nanoassemblies. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 ,	8.3	9
65	SERS Activities of Green Synthesized Silver Nanoparticles. <i>Journal of Cluster Science</i> , 2015 , 26, 1451-1463		9
64	Photocatalytic and antimicrobial activities of fluorine doped TiO ₂ -carbon nano cones and disc composites. <i>Materials Science in Semiconductor Processing</i> , 2015 , 31, 543-550	4.3	9

63	Changes in spectral features with varying mole fractions of anisaldehyde in binary mixtures. <i>Journal of Raman Spectroscopy</i> , 2007 , 38, 271-276	2-3	9
62	Infrared and laser Raman studies of bis(L-threoninium) sulphate monohydrate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2004 , 60, 2977-83	4-4	9
61	Novel silver nanoparticles/activated carbon co-doped titania nanoparticles for enhanced antibacterial activity. <i>Materials Letters</i> , 2020 , 258, 126775	3-3	9
60	Molecular characterization, DFT and TD-DFT calculations of morpholinium tetra chloropalladate (II). <i>Journal of Molecular Structure</i> , 2017 , 1138, 208-214	3-4	8
59	Orientation of N-(1-(2-chlorophenyl)-2-(2-nitrophenyl)ethyl)-4-methylbenzenesulfonamide on silver nanoparticles: SERS studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 131, 261-7	4-4	8
58	Spectral Investigations on the Fluorescence Quenching of 1,4-dihydroxy-2,3-dimethylantracene-9,10-dione by Plasmonic Silver Nanoparticles. <i>Plasmonics</i> , 2014 , 9, 443-450	2-4	8
57	Spectral investigations on 1,4-dimethylamino anthraquinone under laser excitation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2002 , 58, 2941-9	4-4	8
56	Spectral investigations on 1,5-dipiperidino anthraquinone. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2003 , 59, 393-403	4-4	8
55	Enhanced photocatalytic degradation of textile dyeing wastewater under UV and visible light using ZnO/MgO nanocomposites as a novel photocatalyst. <i>Particulate Science and Technology</i> , 2020 , 38, 812-820		8
54	Detection and degradation of leachate in groundwater using ag modified Fe ₃ O ₄ nanoparticle as sensor. <i>Journal of Molecular Liquids</i> , 2018 , 252, 97-102	6	7
53	Glutathione Functionalized Gold Nanoparticles as Efficient Surface Enhanced Raman Scattering Substrate for Poly Chlorinated Biphenyl Detection. <i>Journal of Cluster Science</i> , 2018 , 29, 281-287	3	7
52	Spectroscopic studies of 1,4-dimethoxy-2,3-dimethylantracene-9,10-dione on plasmonic silver nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 133, 472-9	4-4	7
51	Optical, structural and morphological properties of silver nanoparticles and its influence on the photocatalytic activity of TiO ₂ . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 111, 80-5	4-4	7
50	Raman spectral investigations on the binary system (acetic acid N,N-dimethyl formamide). <i>Journal of Raman Spectroscopy</i> , 2007 , 38, 231-238	2-3	7
49	Concentration dependent Raman and IR study on salicylaldehyde in binary mixtures. <i>Journal of Raman Spectroscopy</i> , 2007 , 38, 1639-1645	2-3	7
48	Preferential solvation of acridine in binary mixtures. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008 , 71, 773-8	4-4	7
47	Au@TiO ₂ Core Shell Motif Scavenger: Facile Synthesis, High SERS Effect, Synergistic Photocatalytic Activity. <i>Journal of Cluster Science</i> , 2018 , 29, 793-804	3	7
46	Optical and morphological studies of L-histidine functionalised silver nanoparticles synthesised by two different methods. <i>Journal of Experimental Nanoscience</i> , 2015 , 10, 167-180	1-9	6

45	SERS investigations on orientation of 2-bromo-3-methyl-1,4-dimethoxy-9,10-anthraquinone on silver nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 149, 558-63	4.4	6
44	Ground and excited state behavior of 1,4-dimethoxy-3-methyl-anthracene-9,10-dione in silver nanoparticles: Spectral and computational investigations. <i>Journal of Luminescence</i> , 2013 , 142, 1-7	3.8	6
43	Fourier transformed infrared spectral investigations of molecular interactions in propionic acid-2-propanol binary system. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010 , 75, 1181-90	4.4	6
42	Polyvinyl thiol assisted Ag NPs as an efficient SERS analyzer and visible light photocatalyst for tannery waste landfill leachate. <i>Vacuum</i> , 2019 , 161, 125-129	3.7	6
41	Photo-degradation of CT-DNA with a series of carbothioamide ruthenium (II) complexes: Synthesis and structural analysis. <i>Journal of Molecular Structure</i> , 2018 , 1157, 201-209	3.4	6
40	Detect, Remove: A New Paradigm in Sensing and Removal of PCBs from reservoir soil via SERS-Active ZnO triggered gold nanocomposites. <i>Applied Surface Science</i> , 2018 , 449, 638-646	6.7	6
39	Colloidal design of Au@Pt nanoflowers with good catalytic activity and SERS investigations on river soil. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 554, 218-226	5.1	6
38	l-Glutamic acid functionalized silver nanoparticles and its nonlinear optical applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 4124-4131	2.1	5
37	DFT and SERS Study of Adsorption of 1,4-Dimethoxy-2-nitro-3-methylanthracene-9,10-dione onto Silver Nanoparticles. <i>Australian Journal of Chemistry</i> , 2016 , 69, 76	1.2	5
36	Orientation of 1,4-dimethoxy-3-bromomethylanthracene-9,10-dione on silver nanoparticles: SERS studies. <i>Journal of Molecular Structure</i> , 2014 , 1059, 87-93	3.4	5
35	Investigations of preferential solvation on 1,4-dimethoxy-3-methyl anthracene-9,10-dione. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011 , 78, 122-7	4.4	5
34	Spectral investigations on 2-methyl-3-chloromethyl-1,4-naphthoquinone and 2,3-bis(chloromethyl)-1,4-naphthoquinone under laser excitation. <i>Journal of Raman Spectroscopy</i> , 2003 , 34, 172-179	2.3	5
33	Monodispersed Gold Nanoparticles as a Probe for the Detection of Hg ²⁺ Ions in Water. <i>Acta Chimica Slovenica</i> , 2017 , 64, 186-192	1.9	5
32	Evaluating the detection efficacy of advanced bimetallic plasmonic nanoparticles for heavy metals, hazardous materials and pesticides of leachate in contaminated groundwater. <i>Environmental Research</i> , 2021 , 201, 111590	7.9	5
31	Synthesis of gallic acid capped ZnSe transparent nanorods. <i>Materials Letters</i> , 2014 , 115, 34-37	3.3	4
30	Spectral investigations on the influence of silver nanoparticles on the fluorescence quenching of 1,4-dimethoxy-2,3-dibromomethylanthracene-9,10-dione. <i>European Physical Journal D</i> , 2014 , 68, 1	1.3	4
29	Effect of potassium on structural, photocatalytic and antibacterial activities of ZnO nanoparticles. <i>Advances in Natural Sciences: Nanoscience and Nanotechnology</i> , 2016 , 7, 045008	1.6	4
28	Fluorinated TiO ₂ -doped, glycine-functionalized MWCNTs for high-performance antibacterial agents. <i>Carbon Letters</i> , 2019 , 29, 65-68	2.3	3

27	Surface enhanced Raman spectral studies of 2-bromo-1,4-naphthoquinone. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 138, 113-9	4.4	3
26	A facile synthesis of malic acid capped ZnSe transparent nanopellets and its optical properties. <i>Materials Letters</i> , 2015 , 144, 110-113	3.3	3
25	Synthesis of CdS nanoparticles for photocatalytic application of methyleneblue degradation 2014 ,		3
24	Effect of ZnO/Ag Nanocomposites Against Anionic and Cationic Dyes as Photocatalysts and Antibacterial Agents. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021 , 31, 500-510	3.2	3
23	Fluorescence Quenching by Plasmonic Silver Nanoparticles 2017 , 197-202		2
22	Plasmonic silver nanospheres embedded ϵ -caprolactone/reduced graphite oxide nanolayers as active SERS substrates. <i>Materials Science and Engineering C</i> , 2019 , 101, 431-437	8.3	2
21	Ground and excited state preferential solvation behaviour of 1,4-dihydroxy-3-methylanthracene-9,10-dione in DMF+CCl ₄ binary system. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012 , 86, 336-40	4.4	2
20	Micropatterned Arrays of ZnSe Nanospheres as Antireflection Coatings. <i>Australian Journal of Chemistry</i> , 2014 , 67, 1427	1.2	2
19	Orientation of 2,6-Dicarbethoxy-3,5-bis(pyridine-3-yl)tetrahydro-1,4-thiazine-1,1-dioxide on Silver Nanoparticles: Surface-Enhanced Raman Spectral Studies. <i>International Journal of Spectroscopy</i> , 2014 , 2014, 1-8		2
18	Absorption, fluorescence studies and ab initio calculations on binary mixture of p-dimethylaminobenzaldehyde. <i>Journal of Fluorescence</i> , 2008 , 18, 383-91	2.4	2
17	Hollow Gold Nanosphere Templated Synthesis of PEGylated Hollow Gold Nanostars and Use for SERS Detection of Amyloid Beta in Solution. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 12344-12352	3.4	2
16	A Negatively Charged Hydrophobic Hemi-micelle of Fe ₃ O ₄ /Ag MNP Role Towards SERS, Photocatalysis and Bactericidal. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021 , 31, 1469-1479	3.2	2
15	Tailoring of Morphology and Optical Properties of Bishydrazone-Capped ZnSe Nanorods. <i>Australian Journal of Chemistry</i> , 2015 , 68, 1508	1.2	1
14	Surface Enhanced Raman Spectroscopic investigations of 2-bromo-3-methylamino-1,4-naphthoquinone on silver nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 136 Pt C, 1967-73	4.4	1
13	TiO ₂ -based nanomaterials for wastewater treatment 2020 , 3-24		1
12	Structural and spectroscopic study of adsorption of anthracene on silver. <i>Molecular Physics</i> , 2015 , 113, 3673-3682	1.7	1
11	Characterization of Ag Nanocrystals for use in Solar Cell Applications. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1211, 1		1
10	ZnO/BaO nanocomposites: a promising photocatalyst in degrading anionic and cationic dyes under UV and visible light and an efficient antibacterial agent. <i>Journal of Sol-Gel Science and Technology</i> , 1	2.3	1

9	Large scale ZnTe nanostructures on polymer micro patterns via capillary force photolithography 2016 ,		1
8	Impact of carbon-fluorine doped titanium dioxide in the performance of an electrochemical sensing of dopamine and rosebengal sensitized solar cells. <i>AIP Advances</i> , 2015 , 5, 017149	1.5	0
7	Size dependent antimicrobial activity of Boerhaavia diffusa leaf mediated silver nanoparticles. <i>Journal of King Saud University - Science</i> , 2022 , 102096	3.6	0
6	Surface-Enhanced Infrared Spectral Investigations of 2,3-Bis(chloromethyl)anthracene-1,4,9,10-tetraone on Copper Nanoparticles. <i>Spectroscopy Letters</i> , 2012 , 45, 438-446	1.1	
5	Surface enhanced infrared spectral investigation of 2,3-bis(chloromethyl)anthracene-1,4,9,10-tetraone on silver nanoparticles. <i>Journal of Applied Spectroscopy</i> , 2012 , 79, 189-196	0.7	
4	Antimicrobial activity of green synthesized plasmonic nanoparticles 2019 , 117-151		
3	SERS nanosensors for organic compounds contaminated soils 2021 , 259-284		
2	Synergistic Effect of Nickel on Tungsten Oxide Hydrate (WO ₃ ·H ₂ O) As a Photoanode for Dye-Sensitized Solar Cells. <i>Journal of Electronic Materials</i> , 1	1.9	
1	Graphene-based surface-enhanced Raman scattering as an efficient tool in the detection of toxic organic dyes in real industrial effluents 2022 , 167-187		