K G Gopchandran

List of Publications by Year
in descending order

93	3,169	147566	161609
papers	citations	31 h-index	54 g-index

93	93	93	4611
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Studies on surface plasmon resonance and photoluminescence of silver nanoparticles. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2008, 71, 186-190.	2.0	357
2	Green synthesis of gold nanoparticles using Cinnamomum zeylanicum leaf broth. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2009, 74, 735-739.	2.0	295
3	Nanostructured mesoporous nickel oxide thin films. Nanotechnology, 2007, 18, 115613.	1.3	210
4	Preparation of transparent and semiconducting NiO films. Vacuum, 2002, 68, 149-154.	1.6	171
5	ZnO nanostructures with tunable visible luminescence: Effects of kinetics of chemical reduction and annealing. Journal of Science: Advanced Materials and Devices, 2017, 2, 51-58.	1.5	100
6	The preparation of transparent electrically conducting indium oxide films by reactive vacuum evaporation. Vacuum, 1997, 48, 547-550.	1.6	98
7	Gold nanorods with finely tunable longitudinal surface plasmon resonance as SERS substrates. Nanotechnology, 2011, 22, 265705.	1.3	92
8	Diethylene glycol mediated synthesis of Gd2O3:Eu3+ nanophosphor and its Juddâ€“Ofelt analysis. Ceramics International, 2013, 39, 9125-9136.	2.3	90
9	Optical and electrical properties of zinc oxide films prepared by spray pyrolysis. Bulletin of Materials Science, 1999, 22, 921-926.	0.8	84
10	Highly conductive and transparent laser ablated nanostructured Al: ZnO thin films. Applied Surface Science, 2010, 257, 708-716.	3.1	81
11	Au, Ag and Au:Ag colloidal nanoparticles synthesized by pulsed laser ablation as SERS substrates. Progress in Natural Science: Materials International, 2014, 24, 569-578.	1.8	66
12	Aqueous synthesis and characterization of CdS, CdS:Zn2+ and CdS:Cu2+ quantum dots. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2009, 72, 827-832.	2.0	65
13	Nanostructural and surface morphological evolution of chemically sprayed SnO2 thin films. Applied Surface Science, 2008, 254, 2179-2186.	3.1	62
14	A study on the chemical spray deposition of zinc oxide thin films and their structural and electrical properties. Materials Chemistry and Physics, 1999, 58, 71-77.	2.0	61
15	Size-dependent optical properties of Au nanorods. Progress in Natural Science: Materials International, 2013, 23, 36-43.	1.8	61
16	ZnO:Ag nanorods as efficient photocatalysts: Sunlight driven photocatalytic degradation of sulforhodamine B. Applied Surface Science, 2018, 427, 863-875.	3.1	58
17	Studies on optical absorption and photoluminescence of thioglycerol-stabilized CdS quantum dots. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2008, 71, 1402-1407.	2.0	54
18	Effect of annealing on the structural, electrical and optical properties of nanostructured TiO₂ thin films. Crystal Research and Technology, 2009, 44, 989-994.	0.6	50

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19	Preparation and characterization of nanostructured NiO thin films by reactive-pulsed laser ablation technique. Solar Energy Materials and Solar Cells, 2007, 91, 1505-1509.	3.0	48
20	Organic mediated synthesis of highly luminescent Li⁺ ion compensated Gd₂O₃:Eu³⁺ nanophosphors and their Juddâ€“Ofelt analysis. RSC Advances, 2016, 6, 67295-67307.	1.7	47
21	Growth and characterization of indium oxide thin films prepared by spray pyrolysis. Optical Materials, 2006, 28, 1405-1411.	1.7	44
22	Studies on optical absorption and photoluminescence of thioglycerol-stabilized ZnS nanoparticles. Optical Materials, 2009, 32, 169-175.	1.7	44
23	Surface enhanced Raman scattering, antibacterial and antifungal active triangular gold nanoparticles. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 102, 114-119.	2.0	42
24	Synthesis, characterization and SERS activity of Auâ€“Ag nanorods. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2008, 70, 780-784.	2.0	40
25	Microstructural, optical and spectroscopic studies of laser ablated nanostructured tantalum oxide thin films. Applied Surface Science, 2009, 255, 7126-7135.	3.1	40
26	Influence of local structure on luminescence dynamics of red emitting ZnO:Eu3+ nanostructures and its Judd-Ofelt analysis. Journal of Luminescence, 2019, 205, 179-189.	1.5	37
27	Ag@Au coreâ€“shell nanoparticles synthesized by pulsed laser ablation in water: Effect of plasmon coupling and their SERS performance. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 149, 913-919.	2.0	36
28	Site selective substitution and its influence on photoluminescence properties of Sr_{0.8}Li_{0.2}Ti_{0.8}Nb_{0.2}O₃:Eu³⁺ phosphors. RSC Advances, 2017, 7, 28438-28451.	1.7	36
29	Synthesis of highly stable silver nanorods and their application as SERS substrates. Journal of Science: Advanced Materials and Devices, 2018, 3, 196-205.	1.5	35
30	ZnO:Cu nanorods with visible luminescence: copper induced defect levels and its luminescence dynamics. Materials Research Express, 2017, 4, 025002.	0.8	34
31	Shape dependent catalytic activity of unsupported gold nanostructures for the fast reduction of 4-nitroaniline. Colloids and Interface Science Communications, 2019, 29, 9-16.	2.0	33
32	Enhanced luminescence from spontaneously ordered Gd2O3:Eu3+ based nanostructures. Applied Surface Science, 2009, 255, 9112-9123.	3.1	30
33	Compositional tuning and site selective excitations in SrTiO3:Y3+, Eu3+ red phosphors. Dyes and Pigments, 2018, 149, 531-542.	2.0	27
34	Plasmonic photocatalytic activity of ZnO:Au nanostructures: Tailoring the plasmon absorption and interfacial charge transfer mechanism. Journal of Hazardous Materials, 2019, 368, 345-357.	6.5	27
35	Synthesis of pure and biocompatible gold nanoparticles using laser ablation method for SERS and photothermal applications. Current Applied Physics, 2017, 17, 1430-1438.	1.1	26
36	Design of low dispersion and low loss photonic crystal fiber: Defected core circular-octagon hybrid lattices. Optical Fiber Technology, 2019, 51, 17-24.	1.4	26

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37	Luminescence dynamics and concentration quenching in Gd2â^'xEuxO3 nanophosphor. Ceramics International, 2015, 41, 6037-6050.	2.3	25
38	Photoluminescence and dielectric properties of LnTiTaO6 (LnÂ=ÂCe, Pr, Sm) polycrystals. Journal of Materials Science: Materials in Electronics, 2007, 18, 831-835.	1.1	20
39	Bimetallic Auâ€"Ag nanochains as SERS substrates. Current Applied Physics, 2015, 15, 857-863.	1.1	20
40	Influence of metal ion concentration in the glycol mediated synthesis of Gd2O3:Eu3+ nanophosphor. Ceramics International, 2014, 40, 2915-2926.	2.3	19
41	Shell Thickness-Dependent Plasmon Coupling and Creation of SERS Hot Spots in Au@Ag Core-Shell Nanostructures. Plasmonics, 2014, 9, 1323-1331.	1.8	19
42	Studies on the influence of lithium incorporation in the photoluminescence of Y2O3:Eu3+ thin films. Journal of Physics and Chemistry of Solids, 2009, 70, 821-826.	1.9	18
43	White emitting Dy3+ activated perovskite titanates and energy transfer by Eu3+ codoping. Ceramics International, 2017, 43, 12044-12056.	2.3	18
44	Auâ€"Ag hollow nanostructures with tunable SERS properties. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 171, 499-506.	2.0	18
45	Sm3+-doped strontium barium borate phosphor for white light emission: Spectroscopic properties and Juddâ€"Ofelt analysis. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 248, 119187.	2.0	17
46	Y2O3:Eu3+ based nanophosphors with higher oscillator strength through lithium incorporation and indirect oxidation. Journal of Alloys and Compounds, 2010, 490, 399-406.	2.8	16
47	Structural, optical, and morphological properties of laser ablated ZnO doped Ta2O5 films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 174, 150-158.	1.7	15
48	Implementation of Chua's circuit using simulated inductance. International Journal of Electronics, 2011, 98, 667-677.	0.9	15
49	SERS and Antibacterial Active Green Synthesized Gold Nanoparticles. Plasmonics, 2012, 7, 515-524.	1.8	14
50	Properties of Au incorporated In2O3 films. Materials Science in Semiconductor Processing, 2019, 93, 134-147.	1.9	14
51	Engineering of luminescence from Gd2O3:Eu3+ nanophosphors by pulsed laser deposition. Optical Materials, 2009, 32, 121-132.	1.7	13
52	Raman and scanning tunneling spectroscopic investigations on graphene-silver nanocomposites. Journal of Science: Advanced Materials and Devices, 2018, 3, 353-358.	1.5	13
53	Solution combustion synthesis and luminescence dynamics of CaTiO3: Eu3+, Y3+ nanophosphors. Journal of Luminescence, 2021, 235, 118048.	1.5	13
54	Fast photocatalytic degradation of sulforhodamine B using ZnO:Cu nanorods. Journal of Physics and Chemistry of Solids, 2018, 113, 39-49.	1.9	12

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55	Nanostructured zinc aluminates: A promising material for cool roof coating. Journal of Science: Advanced Materials and Devices, 2019, 4, 524-530.	1.5	12
56	Enhanced photoemission from nanoscale agglomerations in Li co-activated Y2O3:Eu3+ thin films. Journal of Alloys and Compounds, 2009, 484, 377-385.	2.8	11
57	High quality, highly transparent Cu incorporated WO3 thin films suitable for blue LED application. Vacuum, 2020, 172, 109044.	1.6	11
58	Prediction of plasmons in silver nanorods using artificial neural networks with back propagation algorithm. Optik, 2018, 172, 721-729.	1.4	10
59	Simple, Low-Temperature Route To Synthesize ZnO Nanoparticles and Their Optical Neuromorphic Characteristics. ACS Applied Electronic Materials, 2021, 3, 3846-3854.	2.0	10
60	Effect of doping and substrate temperature on the structural and optical properties of reactive pulsed laser ablated tin oxide doped tantalum oxide thin films. Vacuum, 2010, 84, 1204-1211.	1.6	9
61	Effect of substrates on the photoemission properties of Li doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si58.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mi mathvariant="normal">Gd</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub><mml:mo>:</mml:mo> mathvariant="normal">Eu</mml:mi></mml:mrow><mml:mrow><mml. Optical Materials, 2011, 33, 494-50	1.7	9
62	Simultaneous detection of different probe molecules using silver nanowires as SERS substrates. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 213, 150-158.	2.0	9
63	Liquid phase exfoliated graphene for electronic applications. Materials Research Express, 2017, 4, 095017.	0.8	8
64	CHUA'S OSCILLATOR IN INTEGRATED CIRCUIT FORM WITH INBUILT CONTROL OPTION. Journal of Circuits, Systems and Computers, 2011, 20, 1591-1604.	1.0	7
65	Studies on plasmon characteristics and the local density of states of Au and Ag based nanoparticles. Superlattices and Microstructures, 2016, 89, 369-377.	1.4	7
66	Spontaneously ordered TiO2 nanostructures. Ceramics International, 2011, 37, 3307-3315.	2.3	6
67	Synthesis of Gold Nanoflowers and their High SERS Performance. Materials Today: Proceedings, 2015, 2, 928-933.	0.9	6
68	Influence of surfactants on the electronic properties of liquid-phase exfoliated graphene. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2019, 240, 62-68.	1.7	6
69	Perovskite titanates at the nanoscale: Tunable luminescence by energy transfer and enhanced emission with Li+ co-doping. Journal of Solid State Chemistry, 2020, 288, 121449.	1.4	6
70	Effects of the Eu3+concentration on the structural, optical and morphological properties of cubic Gd2O3nanostructured thin films. IOP Conference Series: Materials Science and Engineering, 2009, 2, 012029.	0.3	4
71	Rutile TiO2(101) based plasmonic nanostructures. Ceramics International, 2013, 39, 1081-1086.	2.3	4
72	A simulation study on DCF compensated SMF using OptSim. , 2010, , .		3

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73	Simultaneous SERS detection using hexagonal hollow Au-Ag nanoparticles with near infrared plasmon. Vibrational Spectroscopy, 2021, 114, 103233.	1.2	3
74	Photoluminescence and dielectric properties of Eu3+ substituted microwave ceramics. Journal of Materials Science: Materials in Electronics, 2010, 21, 1132-1136.	1.1	2
75	Citrate mediated synthesis and tuning of luminescence in Eu3+incorporated Gd2O3nanophosphors. IOP Conference Series: Materials Science and Engineering, 2015, 73, 012122.	0.3	2
76	Virus shaped gold nanoparticles with tunable near infrared plasmon as SERS substrates. Materials Research Express, 2015, 2, 075005.	0.8	2
77	Restructuring hollow Auâ€“Ag nanostructures for improved SERS activity. Materials Research Express, 2016, 3, 105012.	0.8	2
78	Surfactant molecules make liquid phase exfoliated graphene a switching element for resistive random access memory applications. Journal of Materials Science: Materials in Electronics, 2018, 29, 9700-9708.	1.1	2
79	Luminescent properties of Li4Ti5O12: Eu3+ reddish-orange phosphors for WLED applications. Materials Today: Proceedings, 2020, 26, 117-121.	0.9	2
80	Hybrid photonic crystal fiber with elliptical micro air hole as an efficient supercontinuum source. Optical Fiber Technology, 2020, 56, 102198.	1.4	2
81	Enhanced electron transfer due to rGO makes Agâ€“CaTiO3@rGO a promising plasmonic photocatalyst. Journal of Science: Advanced Materials and Devices, 2022, 7, 100468.	1.5	2
82	Information encryption and decryption using hyperchaotic systems in delayed nonlinear feedback systems. , 2010, , .		1
83	Design and implementation of data acquisition and control system for multi-wavelength dayglow photometer. , 2013, , .		1
84	Automation of the gate scanning mechanism of the multi-wavelength dayglow photometer using LabVIEW. , 2013, , .		1
85	Uniformity analysis in nanocrystalline silver thin films using fuzzy inference system. Surface and Interface Analysis, 2015, 47, 161-165.	0.8	1
86	Enhanced Red Emission in LiY1-xMo2O8: xEu3+ Phosphors for White Light Emitting Diodes. Materials Today: Proceedings, 2015, 2, 1007-1011.	0.9	1
87	Solution-combustion synthesized highly luminescent CaTiO3:Gd2O3:Eu3+ perovskite nanophosphors for WLED applications. Journal of Science: Advanced Materials and Devices, 2022, 7, 100400.	1.5	1
88	Surface plasmon resonance engineering of gold nanoparticles using off-axis PLD technique. , 2010, , .		0
89	Influence of substitution of LiNbO3 in enhancing luminescence in Eu3+ activated strontium titanate. AIP Conference Proceedings, 2019, , .	0.3	0
90	Role of La3+ ion substitution sites on the photoluminescence properties of the SrTiO3:Eu3+ phosphors. Journal of Science: Advanced Materials and Devices, 2020, 5, 233-241.	1.5	0

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91	Non-binary QC-LDPC codes for non-Gaussian optical channels. Optical and Quantum Electronics, 2021, 53, 1.	1.5	0
92	Experimental Study of Rank 1 Chaos in Chuaâ€™s Oscillator with Cubic Nonlinearity. Communications in Computer and Information Science, 2011, , 351-355.	0.4	0
93	Studies on plasmon coupling between pure colloidal gold nanoparticles prepared by laser ablation in water. Materials Today: Proceedings, 2021, , .	0.9	0