Amish G Joshi

List of Publications by Year
in descending order

94 papers	2,399 citations	201674 27 h-index	223800 46 g-index
95 all docs	95 docs citations	95 times ranked	3956 citing authors

#	Article	IF	Citations
1	ZnO decorated luminescent graphene as a potential gas sensor at room temperature. Carbon, 2012, 50, 385-394.	10.3	335
2	Electrophoretically deposited reduced graphene oxide platform for food toxin detection. Nanoscale, 2013, 5, 3043.	5.6	158
3	Poly(3,4-ethylenedioxythiophene)â˘Multiwalled Carbon Nanotube Composite Films: Structure-Directed Amplified Electrochromic Response and Improved Redox Activity. Journal of Physical Chemistry B, 2009, 113, 9416-9428.	2.6	113
4	Poly(3,4-ethylenedioxythiophene)-Ionic Liquid Functionalized Graphene/Reduced Graphene Oxide Nanostructures: Improved Conduction and Electrochromism. ACS Applied Materials & Interfaces, 2011, 3, 1115-1126.	8.0	105
5	Carbothermal synthesis of boron nitride coating on PAN carbon fiber. Journal of the European Ceramic Society, 2009, 29, 2129-2134.	5.7	82
6	Electrochromic Nanostructured Tungsten Oxide Films by Sol-gel: Structure and Intercalation Properties. Journal of the Electrochemical Society, 2006, 153, C365.	2.9	81
7	Valence band and core-level analysis of highly luminescent ZnO nanocrystals for designing ultrafast optical sensors. Applied Physics Letters, 2010, 96, .	3.3	58
8	Electrodeposited Prussian blue films: Annealing effect. Electrochimica Acta, 2006, 51, 4291-4301.	5.2	50
9	A novel 1,1â€²-bis[4-(5,6-dimethyl-1H-benzimidazole-1-yl)butyl]-4,4â€²-bipyridinium dibromide (viologen) for a high contrast electrochromic device. Organic Electronics, 2013, 14, 1027-1036.	2.6	50
10	Fabrication of Luminescent, Magnetic Hollow Core Nanospheres and Nanotubes of Cr-Doped ZnO by Inclusive Coprecipitation Method. Journal of Physical Chemistry C, 2010, 114, 18429-18434.	3.1	48
11	Local symmetry breaking in SnO₂ nanocrystals with cobalt doping and its effect on optical properties. Nanoscale, 2018, 10, 10664-10682.	5.6	46
12	Crystal structure, magnetic properties, and MÃ¶ssbauer studies ofLa0.6Sr0.4FeO3â˘Î´prepared by quenching in different atmospheres. Physical Review B, 2002, 66, .	3.2	45
13	Poly(3,4-Ethylenedioxypyrrole) Enwrapped by Reduced Graphene Oxide: How Conduction Behavior at Nanolevel Leads to Increased Electrochemical Activity. Journal of Physical Chemistry C, 2011, 115, 18354-18365.	3.1	44
14	Pr₂FeCrO₆: A Type I Multiferroic. Inorganic Chemistry, 2017, 56, 12712-12718.	4.0	44
15	Study of hydrophobic finishing of cellulosic substrate using He/1,3-butadiene plasma at atmospheric pressure. Surface and Coatings Technology, 2012, 213, 65-76.	4.8	43
16	Ag promoted La0.8Ba0.2MnO3 type perovskite catalyst for N2O decomposition in the presence of O2, NO and H2O. Journal of Molecular Catalysis A, 2011, 348, 42-54.	4.8	42
17	Facile chemical synthesis and novel application of zinc oxysulfide nanomaterial for instant and superior adsorption of arsenic from water. Journal of Cleaner Production, 2019, 208, 458-469.	9.3	40
18	Charge Transport and Electrochromism in Novel Nanocomposite Films of Poly(3,4-ethylenedioxythiophene)-Au Nanoparticlesâ˘CdSe Quantum Dots. Journal of Physical Chemistry C, 2010, 114, 14606-14613.	3.1	38

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19	Low cost, surfactant-less, one pot synthesis of Cu2O nano-octahedra at room temperature. Journal of Solid State Chemistry, 2011, 184, 2209-2214.	2.9	38
20	Structural, transport and optical properties of (La_{0.6}Pr_{0.4})_{0.65}Ca_{0.35}MnO₃nanocrystals: a wide band-gap magnetic semiconductor. Dalton Transactions, 2015, 44, 3109-3117.	3.3	38
21	Investigation of confinement effects in ZnO quantum dots. Nanotechnology, 2009, 20, 425701.	2.6	36
22	A Dual Electrochrome of Polyâ€(3,4â€Ethylenedioxythiophene) Doped by <i>N</i>,<i>N</i>â€²â€Bis(3â€sulfonatopropyl)â€4â€4â€²â€bipyridiniumâ€"Redox Chemistry and Electrochromism in Flexible Devices. ChemSusChem, 2010, 3, 97-105.	6.8	35
23	Directed nanoparticle reduction on graphene. Materials Today, 2012, 15, 118-125.	14.2	34
24	Influence of Li co-doping on structural property of sol-gel derived terbium doped zinc oxide nanoparticles. Materials Characterization, 2018, 142, 593-601.	4.4	33
25	Investigation on one-pot hydrothermal synthesis, structural and optical properties of ZnS quantum dots. Materials Chemistry and Physics, 2013, 138, 186-191.	4.0	31
26	Magnetization studies on superconducting MgB2 â€" lower and upper critical fields and critical current density. Solid State Communications, 2001, 118, 445-448.	1.9	28
27	Highly conductive poly(3,4-ethylenedioxypyrrole) and poly(3,4-ethylenedioxythiophene) enwrapped Sb₂S₃nanorods for flexible supercapacitors. Physical Chemistry Chemical Physics, 2014, 16, 2062-2071.	2.8	28
28	Ga-doped ZnO as an electron transport layer for PffBT4T-2OD: PC70BM organic solar cells. Organic Electronics, 2017, 43, 207-213.	2.6	27
29	Revelation of graphene-Au for direct write deposition and characterization. Nanoscale Research Letters, 2011, 6, 424.	5.7	24
30	Existence of the multiferroic property at room temperature in Ti doped. Solid State Communications, 2012, 152, 360-363.	1.9	24
31	Red to Blue High Electrochromic Contrast and Rapid Switching Poly(3,4-ethylenedioxypyrrole)-Au/Ag Nanocomposite Devices for Smart Windows. ChemPhysChem, 2011, 12, 1176-1188.	2.1	23
32	Functionalized Graphite Platelets and Lead Sulfide Quantum Dots Enhance Solar Conversion Capability of a Titanium Dioxide/Cadmium Sulfide Assembly. Journal of Physical Chemistry C, 2014, 118, 18924-18937.	3.1	23
33	Unusual Mixed Valence of Eu in Two Materialsâ€"EuSr₂Bi₂S₄F₄ and Eu₂SrBi₂S₄F₄: MÃ¶ssbauer and X-ray Photoemission Spectroscopy Investigations. Inorganic Chemistry, 2017, 56, 3182-3189.	4.0	23
34	Variations in the structural, optical and electrochemical properties of CeO2â€"TiO2 films as a function of TiO2 content. Applied Surface Science, 2006, 252, 5131-5142.	6.1	22
35	Effect of growth temperature on defects in epitaxial GaN film grown by plasma assisted molecular beam epitaxy. AIP Advances, 2014, 4, 027114.	1.3	22
36	Shape controlled synthesis and characterization of Cu2O nanostructures assisted by composite surfactants system. Materials Chemistry and Physics, 2011, 129, 740-745.	4.0	20

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37	Chemical potential shift and gap-state formation in SrTiO3âˆ’<i>Î´</i> revealed by photoemission spectroscopy. Journal of Applied Physics, 2014, 116, .	2.5	20
38	Formation of Sb submonolayer phases on high index Si(5512) surface. Surface Science, 2005, 596, 206-211.	1.9	19
39	Nano Porous Hematite for Solar Hydrogen Production. Journal of the Electrochemical Society, 2012, 159, H685-H691.	2.9	19
40	Synergetic effect of graphene oxide-carbon nanotube on nanomechanical properties of acrylonitrile butadiene styrene nanocomposites. Materials Research Express, 2018, 5, 045608.	1.6	19
41	Investigation of multi-mode spinâ€“phonon coupling and local B-site disorder in Pr₂CoFeO₆ by Raman spectroscopy and correlation with its electronic structure by XPS and XAS studies. Journal of Physics Condensed Matter, 2019, 31, 275802.	1.8	19
42	Study of structural, dielectric, optical properties and electronic structure of Cr-doped LaInO3 perovskite nanoparticles. Materials Characterization, 2017, 131, 108-115.	4.4	18
43	Hydrophobic functionalization of cellulosic substrate by tetrafluoroethane dielectric barrier discharge plasma at atmospheric pressure. Carbohydrate Polymers, 2021, 253, 117272.	10.2	18
44	Existence of Griffiths phase and unusual spin dynamics in double perovskite Tb2CoMnO6. Journal of Magnetism and Magnetic Materials, 2021, 528, 167697.	2.3	16
45	Magnetic and optical properties of Fe doped crednerite CuMnO₂. RSC Advances, 2015, 5, 83504-83511.	3.6	15
46	Enhancement in electrical and magnetic properties with Ti-doping in Bi0.5La0.5Fe0.5Mn0.5O3. Journal of Applied Physics, 2017, 121, .	2.5	14
47	Bandgap Engineering and Signature of Ferromagnetism in Ti_{1âˆ’<i>x</i>}Mn_{<i>x</i>}O_{2Â} Diluted Magnetic Semiconductor Nanoparticles: A Valence Band Study. Physica Status Solidi (B): Basic Research, 2019, 256, 1800262.	1.5	14
48	Optical and magnetic properties of terbium doped zinc oxide nanoparticles with lithium as charge compensator. Optik, 2020, 216, 164839.	2.9	14
49	X-ray photoelectron spectroscopy and conducting atomic force microscopy investigations on dual ion beam sputtered MgO ultrathin films. Thin Solid Films, 2012, 520, 6734-6739.	1.8	13
50	Valence State of Eu and Superconductivity in Se-Substituted EuSr₂Bi₂S₄F₄ and Eu₂SrBi₂S₄F₄. Inorganic Chemistry, 2018, 57, 37-44.	4.0	13
51	Probing the Griffiths like phase, unconventional dual glassy states, giant exchange bias effects and its correlation with its electronic structure in Pr_{2âˆ’<i>x</i>}Sr_{<i>x</i>}CoMnO₆. Journal of Physics Condensed Matter, 2020, 32, 215801.	1.8	13
52	Enhanced photoelectrochemistry and interactions in cadmium selenideâ€“functionalized multiwalled carbon nanotube composite films. Electrochimica Acta, 2010, 55, 6731-6742.	5.2	12
53	Charge Transport and Electrochemical Response of Poly(3,4-ethylenedioxypyrrole) Films Improved by Noble-Metal Nanoparticles. Journal of Physical Chemistry B, 2011, 115, 7321-7331.	2.6	12
54	Extraordinary magnetic properties of double perovskite Eu₂CoMnO₆ wide band gap semiconductor. Journal of Physics Condensed Matter, 2020, 32, 365802.	1.8	12

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55	Influence of hole-filling by La and hole-doping by Ca on the superconductivity of NdBa2Cu3O7â^'Î´. Physica C: Superconductivity and Its Applications, 1999, 320, 87-95.	1.2	11
56	Immuno-CoPS (conducting paper strips) for futuristic cost-effective cancer diagnostics. RSC Advances, 2013, 3, 11846.	3.6	11
57	An emerging nanostructured molybdenum trioxide-based biocompatible sensor platform for breast cancer biomarker detection. MRS Communications, 2018, 8, 668-679.	1.8	11
58	Electronic structure study of wide band gap magnetic semiconductor (La0.6Pr0.4)0.65Ca0.35MnO3 nanocrystals in paramagnetic and ferromagnetic phases. Applied Physics Letters, 2016, 108, .	3.3	10
59	Giant exchange bias in antiferromagnetic Pr₂CoFe_{0.5}Mn_{0.5}O₆: a structural and magnetic properties study. Journal Physics D: Applied Physics, 2022, 55, 365004.	2.8	10
60	Evidence for a magnetic moment on Ir in IrMnAl from x-ray magnetic circular dichroism. Physical Review B, 2003, 68, .	3.2	9
61	Magnetism and magnetocaloric effect in (DyxGd5â^'x)Si2Ge2 (0â©½xâ©½5) compounds. Journal of Applied Physics, 2007, 101, 123901.	2.5	9
62	Structural, magnetic, magneto-transport properties, and electronic structure study of charge-ordered (La 0.4 Pr 0.6) 0.65 Ca 0.35 MnO 3. Journal of Alloys and Compounds, 2017, 699, 31-37.	5.5	9
63	Effect of Cr and Fe doping on the transport and magnetic properties of the low-bandwidth bilayered manganiteSm1.4Sr1.6Mn2O7. Physical Review B, 2002, 66, .	3.2	8
64	Alumina Supported Coâ€"Kâ€"Mo Based Catalytic Material for Diesel Soot Oxidation. Topics in Catalysis, 2009, 52, 2070-2075.	2.8	8
65	Highly efficient, tunable and bright photoluminescence from hydrophobic silica gel nanoparticles. Journal of Materials Chemistry, 2011, 21, 9471.	6.7	8
66	A novel two-phase thermal approach for synthesizing CdSe/CdS core/shell nanostructure. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	8
67	Magnetic and neutron diffraction studies on PrMnSb[sub 2]. Journal of Applied Physics, 2002, 91, 7842.	2.5	7
68	Magnetic and electrical transport properties of DyxGd5â^'xSi2Ge2 (x=0.0, 1.5, 2.5, 3.0, 3.5, 4.5 and 5.0) compounds. Journal of Magnetism and Magnetic Materials, 2007, 309, 212-215.	2.3	7
69	Effective Doping of Rare-earth Ions in Silica Gel: A Novel Approach to Design Active Electronic Devices. Nano-Micro Letters, 2011, 3, 141-145.	27.0	7
70	Identification of point defects on Co-Ni codoping in SnO2 nanocrystals and their effect on the structural and optical properties. Journal of Applied Physics, 2019, 126, .	2.5	6
71	Study of band structure, transport and magnetic properties of BiFeO3â€"TbMnO3 composite. SN Applied Sciences, 2019, 1, 1.	2.9	6
72	Effect of Mo and Moî—¸Ca substitution on the superconductivity of GaBa2Cu3O7â^'Î´. Physica C: Superconductivity and Its Applications, 1997, 291, 25-33.	1.2	5

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73	On the effect of thermal history on magnetic properties of CuFe2â^'2xAlxCrxO4 system. Journal of Alloys and Compounds, 2004, 369, 58-61.	5.5	5
74	Extreme magnetic anisotropy and multiple superconducting transition signatures in a [Nb(23nm)/Ni(5nm)]5 multilayer. Physica C: Superconductivity and Its Applications, 2008, 468, 523-530.	1.2	5
75	Effect of Chemical Pressure at the Boundary of Mott Insulator to Itinerant Electron Limit Transition in Spinel Vanadates. Science of Advanced Materials, 2015, 7, 1187-1196.	0.7	4
76	Effect of Mo and Mo-Ca substitution on the superconductivity of GdBa2Cu3O7â^'Î´. Applied Superconductivity, 1998, 6, 471-481.	0.5	3
77	Correlation between hole concentration and Tc in (La2â^'xYx)Ba2(CayCu4+y)Oz superconductors. Physica B: Condensed Matter, 1999, 259-261, 538-539.	2.7	3
78	Suppression of superconductivity in the (La2.5â^'xGd0.5+x)CaBa3â^'xSrx(Cu1â^'yIny)7Oz system due to hole filling by In and its revival by hole doping with Ca. Physica C: Superconductivity and Its Applications, 2002, 371, 315-320.	1.2	3
79	Magnetic instabilities along the superconducting phase boundary of Nbâˆ•Ni multilayers. Journal of Applied Physics, 2007, 101, 09G117.	2.5	3
80	Effect of Cu-Ga and coupled Nd-Ca/Cu-Ga substitution on the superconductivity of NdBa2Cu3O7-Î´. Superconductor Science and Technology, 2000, 13, 1279-1285.	3.5	2
81	Structure and superconductivity of Dy(Ba[sub 2â^'y]La[sub y])Cu[sub 3]O[sub z] (0â‰yâ‰0.5) system. Journal of Applied Physics, 2002, 91, 8498.	2.5	2
82	Understanding the correlation between orbital degree of freedom, lattice-striction and magneto-dielectric coupling in ferrimagnetic Mn_{1.5}Cr_{1.5}O₄. Journal of Physics Condensed Matter, 2021, 33, 505802.	1.8	2
83	Effect of Hf and Hf-Ca substitution on the superconductivity of GdBa2Cu3O7 â^' Î´. Applied Superconductivity, 1996, 4, 327-335.	0.5	1
84	Title is missing!. Journal of Superconductivity and Novel Magnetism, 1998, 11, 285-290.	0.5	1
85	Correlation between Tc and hole concentration in superconducting NdBa2(Cu1â^'xGax)3Oz system. Physica B: Condensed Matter, 2000, 281-282, 906-908.	2.7	1
86	Superconducting studies on the Ho(Ba2â^'yLay)Cu3Oz (0â©½yâ©½0.5) system. Physica B: Condensed Matter, 2002, 312-313, 68-70.	2.7	1
87	Neutron structural studies on the superconducting (Nd1â^'xCax)(Ba1.6La0.4)Cu3Oz system. Journal of Applied Physics, 2009, 105, 083919.	2.5	1
88	Double glassy states and large spontaneous and conventional exchange bias in La_{1.5}Ca_{0.5}CoFeO₆ ferrimagnetic double perovskite. Journal of Physics Condensed Matter, 2022, 34, 375803.	1.8	1
89	Effect of Cd and Cd-Ca Substitution on the Superconductivity in Y1â^'xPrxBa2Cu3O7â^'Î´ Superconductor. Journal of Superconductivity and Novel Magnetism, 1997, 10, 507-511.	0.5	0
90	Effect of Ca Substitution on the Superconductivity of La2.5Y0.5CaBa3(Cu0.88Fe0.12)7O z. Journal of Superconductivity and Novel Magnetism, 1998, 11, 673-676.	0.5	0

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91	Superconductivity in (La2âˆ’xYx)Ba2(CayCu4+y)Oz system. Materials Letters, 1998, 37, 68-71.	2.6	0
92	Neutron Structural Studies of the Superconducting (Nd1âˆ’yCay)Ba2(Cu0.94Ga0.06)3Oz System. Journal of Superconductivity and Novel Magnetism, 2000, 13, 347-352.	0.5	0
93	Formation of antimony 1D-nanostructures on Si (5 5 12) surface. Materials Research Society Symposia Proceedings, 2005, 862, 881.	0.1	0
94	Effect of Anisotropy on Magnetic Ordering in the Spinel System CoZn_zGe_zCr_{x-z}Fe_{2-x-z}O<sub>4</s Solid State Phenomena, 0, 202, 155-160.	0.3	0