Dr Daruka Prasad B

List of Publications by Year in Descending Order

321 papers	9,066 citations	50 h-index	74 g-index
330 ext. papers	10,497 ext. citations	4.1 avg, IF	6.42 L-index

#	Paper	IF	Citations
321	Green emanating BiOCl:Tb3+ phosphors for strategic development of dermatoglyphics and anti-counterfeiting applications. *Inorganic Chemistry Communication*, **2022**, 138, 109266	3.1	0
320	Surface engineered La2Zr2O7:Eu3+ nanophosphors: Luminescent based platform for latent fingerprints visualization and anti-counterfeiting applications. *Surfaces and Interfaces*, **2022**, 29, 101803	4.1	1
319	One material, many possibilities via enrichment of luminescence in La2Zr2O7:Tb3+ nanophosphors for forensic stimuli aided applications. *Scientific Reports*, **2022**, 12,	4.9	1
318	Uniform Core-shell SiO2@Sr2CeO4:Eu3+nanocomposites: Exploring multiple strategies towards flexible luminescent films and data security applications. *Surfaces and Interfaces*, **2021**, 28, 101583	4.1	1
317	Spectroscopic investigation of ultrasound assisted sonochemical synthesis of BiOCl: Dy3+ nanophosphors for latent fingerprints visualization. *Inorganic Chemistry Communication*, **2021**, 134, 109039	3.1	1
316	Functionalized surfaces created by perturbation in luminescent polymer nanocomposites: Materials for forensic and security ink applications. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 634, 127770	5.1	0
315	Surface Chemistry Modified Core-Shell Structured SiO2@LaOF:Eu3+/Li+ Nanophosphors for Advanced Forensic Applications. *Journal of Science: Advanced Materials and Devices*, **2021**,	4.2	2
314	Comparative analysis of electrochemical performance and photocatalysis of SiO2 coated CaTiO3:RE3+ (Dy, Sm), Li+ core shell nano structures. *Inorganic Chemistry Communication*, **2021**, 134, 108960	3.1	3
313	Dysprosium doped strontium aluminate dusting powder: Sweat pores visualization and white LED component. *Inorganic Chemistry Communication*, **2021**, 134, 109028	3.1	0
312	Effect of RGO-YO and RGO-YO:Cr nanocomposite sensor for dopamine. *Scientific Reports*, **2021**, 11, 9372	4.9	4
311	Photoluminescence, photocatalytic and electrochemical performance of La10Si6O27:Sm3+ nanophosphor: It's applications in display, photocatalytic and electrochemical sensor. *Applied Surface Science Advances*, **2021**, 4, 100070	2.6	5
310	Orange-red emitting praseodymium doped yttrium-molybdate nanophosphors for multifunctional applications. *Journal of Science: Advanced Materials and Devices*, **2021**, 6, 234-244	4.2	2
309	Dy3+ doped Y2MoO6 nanopowders for white light emission: Spectroscopic and transport properties for optoelectronic and energy harvesting applications. *Colloids and Interface Science Communications*, **2021**, 43, 100447	5.4	2
308	A benign approach for novel synthesis of Eu3+ doped MgNb2O6: Its photoluminescence and photocatalytic studies. *Ceramics International*, **2021**, 47, 14899-14906	5.1	4
307	Porous network ZrO2/ZnFe2O4 nanocomposite with heterojunction towards industrial water purification under sunlight: Enhanced charge separation and elucidation of photo-mechanism. *Ceramics International*, **2021**, 47, 14845-14861	5.1	4
306	Enhanced photoluminescence, electrochemical and photocatalytic activity of combustion synthesized La10Si6O27:Dy3+ nanophosphors. *Journal of Science: Advanced Materials and Devices*, **2021**, 6, 49-57	4.2	3
305	Enhanced photoluminescence of SiO2 coated CaTiO3:Dy3+,Li+ nanophosphors for white light emitting diodes. *Ceramics International*, **2021**, 47, 10346-10354	5.1	4

304	Phase-transformation synthesis of Li codoped ZrO2: Eu3+ nanomaterials: Characterization, photocatalytic, luminescent behaviour and latent fingerprint development. *Ceramics International*, **2021**, 47, 10332-10345	5.1	4
303	Centella asiatica mediated solution combustion synthesis of a novel Pr3+ doped Lanthanum Oxyfluoride for display and visualization of latent fingerprints and anticounterfeiting applications. *Journal of Science: Advanced Materials and Devices*, **2021**, 6, 75-83	4.2	4
302	MgNb2O6:Dy3+ nanophosphor: A facile preparation, down conversion photoluminescence and UV driven photocatalytic properties. *Ceramics International*, **2021**, 47, 10370-10380	5.1	4
301	Luminescent and thermal properties of novel orange□ed emitting MgNb2O6:Sm3+ phosphors for displays, photo catalytic and sensor applications. *SN Applied Sciences*, **2021**, 3, 1	1.8	6
300	Screening of anti-cancer activity of reduced graphene oxide biogenically synthesized against human breast cancer MCF-7 cell lines. *Applied Nanoscience (Switzerland)*, **2021**, 11, 1093-1105	3.3	1
299	Aggregation induced emission based active conjugated imidazole luminogens for visualization of latent fingerprints and multiple anticounterfeiting applications. *Scientific Reports*, **2021**, 11, 16748	4.9	5
298	Design of green emitting CaZrO3:Tb3+ nanophosphor: Luminescence based platform for real-time ultrasensitive detection of latent fingerprints and anti-counterfeiting applications. *Optical Materials*, **2021**, 122, 111474	3.3	3
297	Phytochemical mediated synthesis of praseodymium doped beta-eucryptite nanophosphor for ultraviolet stimulated fluorescence based unclonable security applications. *Inorganic Chemistry Communication*, **2021**, 130, 108671	3.1	3
296	Surface functionalized inorganic phosphor by grafting organic antenna for long term preservation of latent fingerprints and data-security applications. *Journal of Colloid and Interface Science*, **2021**, 600, 887-897	9.3	12
295	Effect of Li+ coodoping on the photoluminescence of novel green emitting BiOCl: Tb3+ nanophosphors for display, visualization of latent fingerprints and anticounterfeiting applications. *Journal of Solid State Chemistry*, **2020**, 290, 121418	3.3	8
294	Near UV-light excitable SrAl2O4:Eu3+ nanophosphors for display device applications. *Journal of Science: Advanced Materials and Devices*, **2020**, 5, 111-118	4.2	6
293	Imaging sweat pore structures in latent fingerprints and unclonable anti-counterfeiting patterns by sensitizers blended LaOF:Pr3+ nanophosphors. *Optical Materials*, **2020**, 100, 109625	3.3	9
292	MnFe2O4/ZrO2 nanocomposite as an efficient magnetically separable photocatalyst with good response to sunlight: preparation, characterization and catalytic mechanism. *SN Applied Sciences*, **2020**, 2, 1	1.8	5
291	Synthesis and characterization of advanced functional dysprosium doped Sr2MgSi2O7 nanopowders for white LED application. *Physica B: Condensed Matter*, **2020**, 590, 412195	2.8	4
290	Surface adaptation prompted enhanced photo and thermoluminescence properties of Dy3+ doped wollastonite nanophosphor. *Materials Chemistry and Physics*, **2020**, 249, 123070	4.4	7
289	Magnetic Eu-doped MgFe2O4 nanomaterials: An investigation of their structural, optical and enhanced visible-light-driven photocatalytic performance. *Environmental Nanotechnology, Monitoring and Management*, **2020**, 13, 100268	3.3	3
288	Facile green synthesis, characterization and transport properties of LiAlSiO4:Ce3+ nanocomposites. *Ceramics International*, **2020**, 46, 9706-9713	5.1	3
287	Hierarchical Bi2Zr2O7:Dy3+ architectures fabricated by bio-surfactant assisted hydrothermal route for anti-oxidant, anti-bacterial and anti-cancer activities. *Materials Chemistry and Physics*, **2020**, 242, 122468	4.4	3

286	Shape controllable ultrasound assisted fabrication of CaZrO3:Dy3+ hierarchical structures for display, dosimetry and advanced forensic applications. *Journal of Photochemistry and Photobiology A: Chemistry*, **2020**, 389, 112248	4.7	9
285	Photoluminescence and electrochemical performances of Eu3+doped La10Si6O27 nanophosphor: Display and electrochemical sensor applications. *Applied Surface Science Advances*, **2020**, 1, 100026	2.6	4
284	Photometric features and intense blue light emanation of Nd3+ doped SrTiO3 based nanophosphor for multi-functional applications. *Journal of Science: Advanced Materials and Devices*, **2020**, 5, 487-496	4.2	1
283	Photoluminescence, thermoluminescence and photocatalytic studies of sonochemical synthesis of Bi2Zr2O7:Sm3+ nanomaterials. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 15627-15643	2.1	3
282	Terminalia bellirica dried fruit and seed extract offers alpha-amylase inhibitory potential in tackling diabetes. *Applied Nanoscience (Switzerland)*, **2020**, 10, 4325-4339	3.3	3
281	Enhanced Sunlight driven photocatalytic performance and visualization of latent fingerprint by green mediated ZnFe2O4@RGO nanocomposite. *Arabian Journal of Chemistry*, **2020**, 13, 1449-1465	5.9	12
280	Hierarchical zinc aluminate 3D nanostructures, synthesized by bio-inspired ultrasound assisted sonochemical route: Display and dosimetry applications. *Arabian Journal of Chemistry*, **2020**, 13, 580-594	5.9	5
279	Colour quality parameters and enhanced white light emanation via solution combustion derived MoO3:Dy3+ micro-architectures: Fluorescent probe for sensitive visualization of latent fingerprints. *Optical Materials*, **2020**, 105, 109817	3.3	13
278	Highly sensitive detection of fingerprints by cyan emitting fluorescent powders prepared via one-pot hydrothermal route **2019**,		2
277	Ultrasound induced synthesis of dual phased hierarchical ZrO2:Eu3+ architectures: Fluorescent based sensor for rapid visualization of latent fingerprints. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2019**, 581, 123749	5.1	8
276	Photoluminescence and photocatalytic properties of novel Bi2O3:Sm3+ nanophosphor. *Journal of Science: Advanced Materials and Devices*, **2019**, 4, 531-537	4.2	4
275	Phase dependent photoluminescence and thermoluminescence properties of Y2SiO5:Sm3+ nanophosphors and its advanced forensic applications. *Optical Materials*, **2019**, 96, 109282	3.3	5
274	Facile Green Synthesis of SnO2 NPs Using Vitex altissima (L.) Leaves Extracts: Characterization and Evaluation of Antibacterial and Anticancer Properties. *Journal of Cluster Science*, **2019**, 30, 431-437	3	6
273	Antimicrobial properties of green synthesis of MgO micro architectures via Limonia acidissima fruit extract. *Biocatalysis and Agricultural Biotechnology*, **2019**, 18, 100991	4.2	21
272	Photoluminescence of a novel green emitting Bi2O3:Tb3+nanophosphors for display, thermal sensor and visualisation of latent fingerprints. *Optik*, **2019**, 192, 162956	2.5	15
271	Ultrasound assisted fabrication of SrTiO3 nanopowders: Effect of electron beam induced structural and luminescence properties for solid state lightning and high temperature dosimetry applications. *Optical Materials*, **2019**, 92, 386-398	3.3	8
270	Sonochemical synthesis of green emitting Ca2SiO4:Er3+ nanopowders: Promising applications in optical thermometry and radiation dosimeter. *Optical Materials*, **2019**, 92, 125-135	3.3	14
269	Vanadium pentoxide nanorods in latent finger print detection. *Materials Research Express*, **2019**, 6, 084003	1.7	3

268	Impacts of core shell structure on structural and photoluminescence properties of CaTiO3:Sm3+, Li+ nanoparticles for solid state display applications. *Materials Research Express*, **2019**, 6, 085037	1.7	9
267	Rational design of bi-functional RE3+ (RE = Tb, Ce) and alkali metals (M+ = Li, Na, K) co-doped CaAl2O4 nanophosphors for solid state lighting and advanced forensic applications. *Materials Research Bulletin*, **2019**, 115, 88-97	5.1	12
266	New insights into the rapid deposition and visualization of latent fingerprints: Cyan light emitting GdAlO3:Ce3+ nano fluorescent probe. *Journal of Photochemistry and Photobiology A: Chemistry*, **2019**, 376, 288-304	4.7	23
265	Influence of Zn2+ doping on the lattice defects and photoluminescence studies of Sr2CeO4:Eu3+ nanophosphor: Applications for data encryption strategies. *Optical Materials*, **2019**, 90, 159-171	3.3	12
264	New design of highly sensitive AIE based fluorescent imidazole derivatives: Probing of sweat pores and anti-counterfeiting applications. *Materials Science and Engineering C*, **2019**, 101, 564-574	8.3	22
263	Rational design of monovalent ions (Li, Na, K) co-doped ZnAl2O4:Eu3+ nanocrystals enabling versatile robust latent fingerprint visualization. *Journal of Rare Earths*, **2019**, 37, 699-705	3.7	14
262	Optical, electrical and luminescent studies of CuO/MgO nanocomposites synthesized via sonochemical method. *Journal of Alloys and Compounds*, **2019**, 786, 855-866	5.7	12
261	Bi2O3:Dy3+ nanophosphors: its white light emission and photocatalytic activity. *SN Applied Sciences* , **2019**, 1, 1	1.8	5
260	NUV light-induced visible green emissions of Erbium-doped hierarchical Bi2Zr2O7 structures. *Optical Materials*, **2019**, 95, 109237	3.3	8
259	Bio-mediated Combustion Synthesis and Color Characteristic Studies of Y2O3:Tm3+ Nanoscale Superstructures. *IOP Conference Series: Materials Science and Engineering*, **2019**, 577, 012184	0.4	
258	One pot synthesis of TiO2:Eu3+ hierarchical structures as a highly specific luminescent sensing probe for the visualization of latent fingerprints. *Journal of Rare Earths*, **2019**, 37, 134-144	3.7	14
257	Rapid visualization of latent fingerprints using novel CaSiO3:Sm3+ nanophosphors fabricated via ultrasound route. *Journal of Rare Earths*, **2019**, 37, 32-44	3.7	38
256	Influence of surface modification on enhancement of luminescent properties of SiO2@SrTiO3:Dy3+ nanopowders: Probe for visualization of sweat pores present in latent fingerprints. *Optik*, **2019**, 181, 1139-1157	2.5	7
255	Monovalent ions co-doped SrTiO3:Pr3+ nanostructures for the visualization of latent fingerprints and can be red component for solid state devices. *Journal of Luminescence*, **2019**, 208, 371-387	3.8	16
254	Sunlight photocatalytic performance of Mg-doped nickel ferrite synthesized by a green sol-gel route. *Journal of Science: Advanced Materials and Devices*, **2019**, 4, 89-100	4.2	13
253	Promising red emission from functionalized Polypyrrole/CaTiO3:Eu3+ nano-composites for photonic applications. *Optical Materials*, **2019**, 88, 458-465	3.3	4
252	Enhancement of luminescence intensity and spectroscopic analysis of Eu3+ activated and Li+ charge-compensated Bi2O3 nanophosphors for solid-state lighting. *Journal of Rare Earths*, **2019**, 37, 356-364	3.7	14
251	Evolution of shapes and identification of level II and III features of fingerprints using CaZrO3:Sm3+ fluorescent markers prepared via solution combustion route. *Optical Materials*, **2019**, 88, 479-487	3.3	21

250	Pivotal role of fluxes in BaTiO3:Eu3+ nano probes for visualization of latent fingerprints on multifaceted substrates and anti-counterfeiting applications. *Microchemical Journal*, **2019**, 145, 226-234	4.8	38
249	Euphorbia heterophylla (L.) mediated fabrication of ZnO NPs: Characterization and evaluation of antibacterial and anticancer properties. *Biocatalysis and Agricultural Biotechnology*, **2019**, 18, 100894	4.2	19
248	Nanostructured Stannic Oxides for White Light Emitting Diodes Provides Authentication for Latent Fingerprints Visualization under Diverse Environmental Conditions. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 578-591	8.3	12
247	Green engineered nano MgO and ZnO doped with Sm3+: Synthesis and a comparison study on their characterization, PC activity and electrochemical properties. *Journal of Physics and Chemistry of Solids*, **2019**, 127, 127-139	3.9	32
246	Surfactant-Assisted BaTiO3:Eu3+@SiO2 Core–Shell Superstructures Obtained by Ultrasonication Method: Dormant Fingerprint Visualization and Red Component of White Light-Emitting Diode Applications. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 5214-5226	8.3	34
245	SiO@LaOF:Eu core-shell functional nanomaterials for sensitive visualization of latent fingerprints and WLED applications. *Journal of Colloid and Interface Science*, **2018**, 518, 200-215	9.3	45
244	EGCG assisted Y2O3:Eu3+ nanopowders with 3D micro-architecture assemblies useful for latent finger print recognition and anti-counterfeiting applications. *Sensors and Actuators B: Chemical*, **2018**, 264, 426-439	8.5	46
243	Multi-functional Zn 2 TiO 4 :Sm 3+ nanopowders: Excellent performance as an electrochemical sensor and an UV photocatalyst. *Journal of Science: Advanced Materials and Devices*, **2018**, 3, 151-160	4.2	14
242	Cationic surfactant assisted sonochemical synthesis of Nd3+ doped Zn2SiO4 nanostructures for solid state lighting applications **2018**,		3
241	Multifunctional Dy (III) doped di-calcium silicate array for boosting display and forensic applications. *Journal of Rare Earths*, **2018**, 36, 690-702	3.7	29
240	Synthesis, crystal structure and excellent photoluminescence properties of copper (II) and cobalt (II) complexes with Bis(1[(4-butylphenyl)imino]methyl naphthalen-2-ol) Schiff base. *Journal of Science: Advanced Materials and Devices*, **2018**, 3, 51-58	4.2	7
239	Rapid visualization of fingerprints on various surfaces using ZnO superstructures prepared via simple combustion route. *Journal of Science: Advanced Materials and Devices*, **2018**, 3, 18-28	4.2	10
238	Bio-template assisted solvothermal synthesis of broom-like BaTiO3: Nd3+ hierarchical architectures for display and forensic applications. *Materials Research Bulletin*, **2018**, 102, 235-247	5.1	22
237	Broad spectral inhibitory effects of pale green zinc oxide nanophosphor on bacterial and fungal pathogens. *Arabian Journal of Chemistry*, **2018**, 11, 324-342	5.9	3
236	Rapid synthesis of C-dot@TiO2 core-shell composite labeling agent: Probing of complex fingerprints recovery in fresh water. *Journal of Alloys and Compounds*, **2018**, 742, 1006-1018	5.7	20
235	Electrochemical, photoluminescence and EPR studies of Fe3+ doped nano Forsterite: Effect of doping on tetra and octahedral sites. *Journal of Luminescence*, **2018**, 197, 233-241	3.8	11
234	Mixed fuel approach for the fabrication of TiO2:Ce3+ (1 mol%) nanophosphors: Applications towards wLED and latent finger print detection. *Ceramics International*, **2018**, 44, 7618-7628	5.1	8
233	Lanthanum oxyfluoride nanostructures prepared by modified sonochemical method and their use in the fields of optoelectronics and biotechnology. *Arabian Journal of Chemistry*, **2018**, 11, 196-213	5.9	24

232	Photoluminescence properties of Dy3+ activated Ca2SiO4 nanophosphor for WLED applications. *Inorganic and Nano-Metal Chemistry*, **2018**, 48, 107-109	1.2	4
231	Effect of Li, Na, K cations on photoluminescence of GdAlO3:Eu3+ nanophosphor and study of Li cation on its antimicrobial activity. *Journal of Alloys and Compounds*, **2018**, 732, 725-739	5.7	21
230	Ultrasound assisted sonochemically engineered effective red luminescent labeling agent for high resolution visualization of latent fingerprints. *Materials Research Bulletin*, **2018**, 98, 250-264	5.1	20
229	Large-scale controlled bio-inspired fabrication of 3D CeO2:Eu3+ hierarchical structures for evaluation of highly sensitive visualization of latent fingerprints. *Sensors and Actuators B: Chemical*, **2018**, 255, 3127-3147	8.5	49
228	Facile LaOF: Sm 3+ based labeling agent and their applications in residue chemistry of latent fingerprint and cheiloscopy under UV□isible light. *Arabian Journal of Chemistry*, **2018**, 11, 460-482	5.9	41
227	Facile ultrasound route for the fabrication of green emitting Ba 2 SiO 4 :Eu 2+ nanophosphors for display and dosimetric applications. *Materials Research Bulletin*, **2018**, 97, 281-292	5.1	18
226	Solvothermal synthesis and luminescent properties of hierarchical flowerlike ZnAl2O4:Ho3+ microstructures. *Optical Materials*, **2018**, 84, 536-544	3.3	15
225	Lysine assisted hydrothermal synthesis and formation process of MoO3:Sm3+ phosphors with hierarchical structures and its electron trapping luminescence properties. *Journal of Alloys and Compounds*, **2018**, 768, 451-463	5.7	9
224	Rapid identification of latent fingerprints, security ink and WLED applications of CaZrO3:Eu3+ fluorescent labelling agent fabricated via bio-template assisted combustion route. *Journal of Alloys and Compounds*, **2018**, 762, 763-779	5.7	68
223	Flux blended synthesis of novel Y2O3:Eu3+ sensing arrays for highly sensitive dual mode detection of LFPs on versatile surfaces. *Journal of Rare Earths*, **2018**, 36, 954-964	3.7	16
222	MoO3 nanostructures from EGCG assisted sonochemical route: Evaluation of its application towards forensic and photocatalysis. *Journal of Alloys and Compounds*, **2018**, 745, 874-891	5.7	20
221	Calcination temperature dependent structural modifications, tailored morphology and luminescence properties of MoO3 nanostructures prepared by sonochemical method. *Journal of Science: Advanced Materials and Devices*, **2018**, 3, 77-85	4.2	11
220	Combustion Synthesis of MgSiO3: Eu3+ (1-11 mol %) Nanophosphor: Detection of Eccrine Latent Fingerprints and Anti-Counterfeiting Applications. *Materials Today: Proceedings*, **2018**, 5, 22473-22480	1.4	4
219	Structural and optical properties of Mg2+ doped tin oxide nanoparticles prepared via green combustion synthesis. *Materials Today: Proceedings*, **2018**, 5, 21147-21155	1.4	2
218	Averrhoa carambola L. assisted phytonanofabrication of zinc oxide nanoparticles and its anti-microbial activity against drug resistant microbes. *Materials Today: Proceedings*, **2018**, 5, 21489-21497	1.4	3
217	Synthesis of BiOCl: Eu3+ Microarchitectures and their WLED□, Fingerprint Detection and Anticounterfeiting Applications. *Materials Today: Proceedings*, **2018**, 5, 22630-22637	1.4	2
216	Cadmium silicate with tunable morphology by cationic surfactant assisted sonochemical route suitable for white light emitting diodes. *Materials Today: Proceedings*, **2018**, 5, 21378-21384	1.4	2
215	Cymbopogoncitratus assisted green synthesis of doped Yttrium nanopowder: Structural and Photoluminescence properties for wLEDs applications. *Materials Today: Proceedings*, **2018**, 5, 21385-21391	1.4	1

214	Acid Activation of Bentonite Clay under Microwave Irradiation: Characterization, Cyclic Voltammetry and Photocatalytic activity. *Materials Today: Proceedings*, **2018**, 5, 22643-22651	1.4	1
213	Combustion Synthesis of ZnONano Particles using Euphorbia Tirucalli Latex as Reducing Agent and Study of its Structural and Photoluminescence Characters. *Materials Today: Proceedings*, **2018**, 5, 22328-22339	1.4	1
212	Facile green approach for the synthesis of ZnO Superstructures: Their structural and photometric properties. *Materials Today: Proceedings*, **2018**, 5, 20803-20810	1.4	
211	Photoluminescence and photometric studies of low temperature prepared red emitting MgAl2O4:Cr3+ nanophosphors for solid state displays. *Journal of Science: Advanced Materials and Devices*, **2018**, 3, 464-470	4.2	4
210	Sonochemical driven ultrafast synthesis of Praseodymium doped Y2O3 nanostructures for display applications. *IOP Conference Series: Materials Science and Engineering*, **2018**, 310, 012114	0.4	
209	New design of highly sensitive and selective MoO:Eu micro-rods: Probing of latent fingerprints visualization and anti-counterfeiting applications. *Journal of Colloid and Interface Science*, **2018**, 528, 443-456	9.3	24
208	Ultrasound assisted sonochemical synthesis of samarium doped Y2O3 nanostructures for display applications **2018**,		1
207	Design of Bi-functional composite core□shell SiO2@ZnAl2O4:Eu3+ array as a fluorescent sensors for selective and sensitive latent fingerprints visualization protocol. *Advanced Powder Technology*, **2018**, 29, 1991-2002	4.6	25
206	Zinc silicates with tunable morphology by surfactant assisted sonochemical route suitable for NUV excitable white light emitting diodes. *Ultrasonics Sonochemistry*, **2017**, 34, 700-712	8.9	53
205	Facile Ultrasound Route To Prepare Micro/Nano Superstructures for Multifunctional Applications. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 2061-2074	8.3	19
204	Sonochemically assisted hollow/solid BaTiO3:Dy3+ microspheres and their applications in effective detection of latent fingerprints and lip prints. *Journal of Science: Advanced Materials and Devices*, **2017**, 2, 22-33	4.2	38
203	Synthesis, photoluminescence and forensic applications of blue light emitting azomethine-zinc (II) complexes of bis(salicylidene)cyclohexyl-1,2-diamino based organic ligands. *Journal of Science: Advanced Materials and Devices*, **2017**, 2, 156-164	4.2	22
202	Ultrasound assisted rare earth doped Wollastonite nanopowders: Labeling agent for imaging eccrine latent fingerprints and cheiloscopy applications. *Journal of Industrial and Engineering Chemistry*, **2017**, 51, 90-105	6.3	64
201	Calotropis gigantean-assisted YSO:Pr3+ nanophosphors: Near-ultraviolet (NUV) photoluminescence and J-O analysis for solid-state lighting solutions. *Inorganic and Nano-Metal Chemistry*, **2017**, 47, 1234-1242	1.2	1
200	Blue light emitting YO:Tm nanophosphors with tunable morphology obtained by bio-surfactant assisted sonochemical route. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2017**, 184, 89-100	4.4	22
199	Novel and highly efficient red luminescent sensor based SiO2@Y2O3:Eu3+, M+ (M+= Li, Na, K) composite core□shell fluorescent markers for latent fingerprint recognition, security ink and solid state lightning applications. *Sensors and Actuators B: Chemical*, **2017**, 251, 310-325	8.5	84
198	Versatile core□shell SiO 2 @SrTiO 3 :Eu 3+ , Li + nanopowders as fluorescent label for the visualization of latent fingerprints and anti-counterfeiting applications. *Chemical Engineering Journal*, **2017**, 327, 1135-1150	14.7	77
197	Structural, morphological and photometric properties of sonochemically synthesized Eu 3+ doped Y 2 O 3 nanophosphor for optoelectronic devices. *Materials Research Bulletin*, **2017**, 94, 442-455	5.1	27

196	Dy3+ doped cubic zirconia nanostructures prepared via ultrasound route for display applications **2017**,		1
195	White light emitting lanthanum aluminate nanophosphor: Near ultra violet excited photoluminescence and photometric characteristics. *Journal of Luminescence*, **2017**, 190, 279-288	3.8	18
194	Diffuse reflectance properties and bandgap analysis of Mg2SiO4:RE3+ (RE= Eu, Tb, Sm, Dy) nanophosphors for light emitting device application **2017**,		1
193	Cationic surfactant assisted ultrasound synthesis of Dy3+ doped CdSiO3 nanostructures for white LED application **2017**,		9
192	Vitis labruska skin extract assisted green synthesis of ZnO super structures for multifunctional applications. *Ceramics International*, **2017**, 43, 11656-11667	5.1	46
191	Color tuning in neodymium doped dicalcium silicate nanostructures prepared via ultrasound method **2017**,		1
190	Facile combustion based engineering of novel white light emitting Zn 2 TiO 4 :Dy 3+ nanophosphors for display and forensic applications. *Journal of Science: Advanced Materials and Devices*, **2017**, 2, 360-370	4.2	17
189	A simple combustion method for the synthesis of multi-functional ZrO 2 /CuO nanocomposites: Excellent performance as Sunlight photocatalysts and enhanced latent fingerprint detection. *Applied Catalysis B: Environmental*, **2017**, 210, 97-115	21.8	68
188	A benign approach for tailoring the photometric properties and Judd-Ofelt analysis of LaAlO3:Sm3+ nanophosphors for thermal sensor and WLED applications. *Sensors and Actuators B: Chemical*, **2017**, 243, 1057-1066	8.5	50
187	Fabricated CeO2 nanopowders as a novel sensing platform for advanced forensic, electrochemical and photocatalytic applications. *Applied Nanoscience (Switzerland)*, **2017**, 7, 815-833	3.3	13
186	Luminescent properties of Tb doped gadolinium aluminate nanophosphors for display and forensic applications. *Journal of Science: Advanced Materials and Devices*, **2017**, 2, 437-444	4.2	15
185	Zn2TiO4: A novel host lattice for Sm3+ doped reddish orange light emitting photoluminescent material for thermal and fingerprint sensor. *Optical Materials*, **2017**, 73, 197-205	3.3	25
184	Green light emitting nanostructures of Tb3+ doped LaOF prepared via ultrasound route applicable in display devices **2017**,		1
183	White light emitting magnesium aluminate nanophosphor: Near ultra violet excited photoluminescence, photometric characteristics and its UV photocatalytic activity. *Journal of Alloys and Compounds*, **2017**, 728, 1124-1138	5.7	50
182	Effect of Li+ codoping on structural and luminescent properties of Mg2SiO4:RE3+ (RE□=□Eu, Tb) nanophosphors for displays and eccrine latent fingerprint detection. *Optical Materials*, **2017**, 72, 295-304	3.3	24
181	Positron annihilation spectroscopy and photoluminescence investigation of LaOF:Tb3+ nanophosphor fabricated via ultrasound assisted sonochemical route. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2017**, 224, 28-39	3.1	11
180	Cicer arietinum fuel-blended facile synthesis, and structural, photometric, and antioxidant investigation of ZnO:Cr3+ nanophosphors for light-emitting display devices. *Inorganic and Nano-Metal Chemistry*, **2017**, 47, 1701-1710	1.2	2
179	Red and green emitting CTAB assisted CdSiO3:Tb3+/Eu3+ nanopowders as fluorescent labeling agents used in forensic and display applications. *Dyes and Pigments*, **2017**, 147, 364-377	4.6	86

178	Bio-inspired ultrasonochemical synthesis of blooming flower like ZnO hierarchical architectures and their excellent biostatic performance. *Journal of Science: Advanced Materials and Devices*, **2017**, 2, 455-469	4.2	3
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32	Structural, iono and thermoluminescence properties of heavy ion (100 MeV Si7+) bombarded Zn2SiO4:Sm3+ nanophosphor. *Journal of Luminescence*, **2013**, 143, 409-417	3.8	21
31	Magnetic Nano Particles for Medical Applications. *International Journal of Biomedical and Clinical Engineering*, **2013**, 2, 56-61	0.7	
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29	Structural and phase dependent thermo and photoluminescent properties of Dy(OH)3 and Dy2O3 nanorods. *Materials Research Bulletin*, **2012**, 47, 2085-2094	5.1	25
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27	Ion beam induced amorphization and bond breaking in Zn2SiO4:Eu3+ nanocrystalline phosphor. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2012**, 90, 18-21	4.4	20
26	Thermoluminescence and EPR studies of nanocrystalline Nd□□Ni□+ phosphor. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2012**, 93, 228-34	4.4	24
25	Combustion synthesis, structural characterization, thermo and photoluminescence studies of CdSiO□Dy□+ nanophosphor. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2012**, 93, 140-8	4.4	44
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18	Electrical Properties of Nano Zinc Ferrites Prepared by Solution Combustion and Hydrothermal Methods. *Materials Science Forum*, **2012**, 710, 721-726	0.4	1
17	Luminescence and defect studies of YAlO3:Dy3+, Sm3+ single crystals exposed to 100 MeV Si7+ ion beam. *Journal of Luminescence*, **2012**, 132, 2679-2683	3.8	14

16	CdSiO□Pr□+ nanophosphor: synthesis, characterization and thermoluminescence studies. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2012**, 99, 279-87	4.4	46
15	Structural characterization, EPR and thermoluminescence properties of Cd1□NixSiO3 nanocrystalline phosphors. *Materials Research Bulletin*, **2012**, 47, 2306-2314	5.1	26
14	Spherical and rod-like Gd 2 O 3 :Eu3 + nanophosphors□Structural and luminescent properties. *Bulletin of Materials Science*, **2012**, 35, 519-527	1.7	40
13	Solution Combustion Synthesis and Photocatalytic Activity of □Fe2O3 Nanopowder. *Transactions of the Indian Ceramic Society*, **2011**, 70, 159-162	1.8	5
12	Synthesis and characterization of spherical and rod like nanocrystalline Nd2O3 phosphors. *Journal of Alloys and Compounds*, **2011**, 509, 1146-1151	5.7	53
11	Effect of Li+-ion on enhancement of photoluminescence in Gd2O3:Eu3+ nanophosphors prepared by combustion technique. *Journal of Alloys and Compounds*, **2011**, 509, 2368-2374	5.7	121
10	Structural, optical and EPR studies on ZnO:Cu nanopowders prepared via low temperature solution combustion synthesis. *Journal of Alloys and Compounds*, **2011**, 509, 5349-5355	5.7	225
9	Combustion synthesis, characterization and Raman studies of ZnO nanopowders. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2011**, 81, 53-8	4.4	113
8	EPR, thermo and photoluminescence properties of ZnO nanopowders. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2011**, 81, 59-63	4.4	45
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6	Thermo and photoluminescence properties of Eu3+ activated hexagonal, monoclinic and cubic gadolinium oxide nanorods. *Physica B: Condensed Matter*, **2011**, 406, 1645-1652	2.8	22
5	Synthesis, characterization and photoluminescence properties of CaSiO3:Eu3+ red phosphor. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2011**, 78, 64-9	4.4	61
4	Synthesis, Structural Characterization and Thermoluminescence Properties of □Irradiated Wollastonite Nanophosphor. *Transactions of the Indian Ceramic Society*, **2011**, 70, 163-166	1.8	3
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1	Airborne dust particle counting techniques. *Environmental Monitoring and Assessment*, **2006**, 114, 191-8	3.1	1