

Name	Dr. Pushpal Ghosh					Date of Birth: 06-11-1978			
Designation	Assistant Professor			Date	of holding	g Present Post	09-10-	-2013	
Name of the Department and School	Department of Chemistry				9	School of Chemical Science and Technology			
Contact Details	Email: pushpalghos	h27@gm	ail.com		N	Mobile: 9407265	512		
Additional Responsibility in the university, if any		Placement cell officer of the department; Teacher-in-charge of the Scanning Electron Microscope (SEM); BET Surface Area Analyzer which are under Sophisticated Instrumentation Centre(SIC)						e (SEM);	
Educational Qualifications (UG onwards)	 PhD, Indian Association for the Cultivation of Science, Kolkata (Degree given by Jadavpu University), (Supervisor: Prof. Amitava Patra, FRSC) M. Sc Presidency College, University of Calcutta B.Sc. (Hon's in Chemistry), Ramkrishna Mission Residential College, Narendrapur, University of Calcutta 						,		
Past Employment	 March 2012 to October 2013-Post Doctoral Research Fellow in European Research Council Project, Ruhr University Bochum, Germany [Mentor: Prof. Anja-Verena Mudring, FRSC] March 2010 to February 2012- Alexander von Humboldt Fellow, Ruhr University Bochum, Germany [Mentor: Prof. Anja-Verena Mudring, FRSC] December 2009 to February 2010- Post Doctoral Research Fellow in European Research Council Project, Ruhr University Bochum, Germany [Mentor: Prof. Anja-Verena Mudring, FRSC] April 2009 to December 2009- SRF Extended by CSIR, Indian Association for the Cultivation of Science, Kolkata (Mentor: Prof. Amitava Patra, FRSC) 								
Research Area/Specialization						Synthesis, Ionic	Liquids, Fun	nctional mate	erials
Awards/ Honors / Fellowship Conferred (With details thereof)	 Alexander von Humboldt Fellowship for Post Doctoral Research in Germany, 2010-2012 Post Doctoral Fellowship in European Research Council Project in the Ruhr University Bochum, Germany (December 2009 to February 2010 and March 2012 to October 2013) Travel grant by SERB, Govt. of India for delivering invited lecture in "XVII International Feofilov Symposium on Spectroscopy of Crystals Doped with Rare-Earth", Russia, 2018 Best Poster Prize in the Rare Earth Processing and Utilization 2014 conducted by Rare Earth Association of India in association with BRNS and Mumbai Chapters of IIM and MRSI Inventor Award for one of the best three inventions (German patent: DE 102012105782 A1) from Ruhr University Bochum, Germany in 2012 Senior Research Fellowship (Extended) 2009 by CSIR, India Best Poster Prize in the 'National Symposium for Materials Research Scholars' 2008 conducted by IIT Bombay National Eligibility Test (NET) 2004 in Chemical Sciences by CSIR, India Graduate Aptitude Test for Engineering (GATE) 2004 conducted by IIT "The Governor of West Bengal's Award" as all round student of the school for 1994-1995 								
Summary of Publications (Number only)	Research 30 Papers	Books	22.20.1	Chapter in Books	01	Seminars/ Conferences Proceedings	04	Projects	05

Research Projects (Completed and Ongoing):

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S.No.	Title	Funding Agency	Duration	Sanction order No. &	Amount in Rs.	Completed/ongoing
				Date	Lakh	
1.	Energy Efficient Luminescent/Catalytic	Science and Engineering	3 years (2020-2023)	CRG/20I8/003751 Dated: 30.01.2020	Rs. 30,54,832/- (PI)	Ongoing
	Nanocomposites via Ionic Liquids	Research Board (SERB)			, ,	

S.No.	Title	Funding Agency	Duration	Sanction order No. & Date	Amount in Rs. Lakh	Completed/ongoing
2.	Energy Efficient Optoelectronic Nanomaterials via Green Synthesis	Board of Research in Nuclear Sciences (BRNS)	,	34/14/27/2016- BRNS/34368 Dated: 17.11.2016	Rs. 34,60,900/-	Ongoing
3.	•	Science and Engineering Research Board (SERB)	3 years (2015-2018)	SB/FT/CS-014/ 2014 Dated:29.05.2015	PI)	Completed [Graded in "Very Good" category]
•		,		F.30-56/2014(BSR) Dated:06.08.2014	Rs.6,00000/- (PI)	Completed
•	associated water quality	Board of Research in Nuclear Sciences (BRNS)	(2017-2020)	36(4)14/13/2017- BRNS/36184 Dated:30.11.2017	Rs.27,51,800 (Co Investigator)	Ongoing

PUBLICATION	INS :
National Pu	olications (Details of Research Papers):
Year (From 2005to 2020)	Name of the author(s), title, name of the journal, vol. no. , page no., Month/year, ISSN and impact factor, if any)
2017	 R. K. Sharma, Y. N. Chouryal and P. Ghosh* "lonic Liquid Based Synthesis of Energy Efficient Nanomaterials" SMC Bulletin 2017; 8, 15-24. ISSN No: 2394-5087 (Invited Feature article and cover page illustration).
Internationa	Publications (Details of Research Papers):
Year (From 2020 to 2005)	Name of the author(s), title, name of the journal, vol. no. , page no., Month/year, ISSN and impact factor, if any)
2020	 R. K. Sharma, Y. N. Chouryal, A. I. Slesarev, K. V. Ivanovskikh, I. I. Leonidov, S. Nigam and P. Ghosh*, A closer look a defects and luminescence of nanocrystalline fluorides synthesized via ionic liquids: the case of Ce³⁺-doped BaF₂, Ne Journal of Chemistry, 2020, 44, 200 (IF 3.069) ISSN No:1369-9261
2019	 R. K. Sharma, S. Nigam, Y.N. Chouryal, S. Nema, S.P. Bera, Y. Bhargav and P. Ghosh* Eu-Doped BaF₂ Nanoparticles for Bioimaging Applications. ACS Appl. Nano Mater. 2019, 2, 927–936. ISSN: 2574-0970
	• Y.N. Chouryal, R. K. Sharma, D. Acharjee, T. Ganguly, A. Pandey and P. Ghosh* , Influence of Ionic Liquids and Concentration of Red Phosphorous on Luminescent Cu ₃ P Nanocrystals, Journal of Chemical Sciences , 2019 , 131:93 (Invited article in Special Issue on Materials Chemistry) (IF 1.496) ISSN No: 0973-7103 (Online)
2018	 J. K. Singh, R.K. Sharma, P. Ghosh, A. Kumar and M. L. Khan, Imidazolium based Ionic Liquids: A Promising Gree Solvent for Water Hyacinth Biomass Deconstruction, Front. Chem., 2018, 6:548 (IF 3.782) ISSN2296-2646
	 R. K. Sharma, Y. N. Chouryal, J. Saravanakumar, S. Barik and P. Ghosh*, Tuning of Crystal Phase and Morphology of In₂S₃ Nanocrystals and Their Adsorption Based Catalytic and Photocatalytic Applications, Chemistry Select, 2018, 38171 (IF 1.716) ISSN No: 2365-6549
2017	 R. K. Sharma, Y. N. Chouryal, S. Chaudhari, J. Saravanakumar, S. R. Dey and P. Ghosh* "Adsorption-Driven Catalytic and Photocatalytic Activity of Phase Tuned In₂S₃ Nanocrystals" ACS Appl. Mater. Interfaces, 2017, 9, 11651-11661 (IF 8.456). ISSN: 1944-8252
	This work is highlighted in all the leading Hindi Newspaper of Madhya Pradesh, India on 12th May, 2017.
	 P. Ghosh*, R. K. Sharma, Y.N. Chouryal, A. V. Mudring* "Size of the rare-earth ions: A key factor in phase tuning and morphology control of binary and ternary rare-earth fluoride materials" <i>RSC Adv.</i>, 2017, 7, 33467. (IF 3.049). ISSN: 2046-2069.
	 R. K. Sharma, A. V. Mudring* and P. Ghosh* "Recent trends in binary and ternary rare-earth fluoride nanophosphors: Horstructural and physical properties influence optical behaviour" J. Luminescence, 2017, 189, 44-63 (IF 2.961). ISSN: 0022 2313
	 This article belongs to a special issue LUMINET— European Network on Luminescent Materials. [The most downloade articles from Journal of Luminescence in the last 90 days after publication].
2016	 P. Ghosh* and A.V. Mudring* "Phase selective synthesis of quantum cutting nanophosphors and the observation of a spontaneous room temperature phase transition" Nanoscale 2016, 8, 8160-8169. (IF 6.970) ISSN 2040-3372

2011 21, 8640-8644 (IF 6.826) [Selected as "Hot Artole"] ISSN:1384-5501 P. Ghosh, A. Kar and A. Patra "Energy Transfer Study between Ce ¹ - and Tb ¹ - ions in Doped and Core-Shell S Ythrium Fluoride Nancorystals Nanoscale 2010, 2, 1196-1202. (This paper is published as part of a Nanosc themed issue on doped nanostructures) (IF 6.970) ISSN 2040-3372 P. Ghosh, A. Kar and A. Patra. "Structural and Photoluminescence Properties of Ce ³ - ion doped sodium ythr fluoride nanocrystals: Influences of sonication and temperature" J. Phys. Chem. C 2010, 114, 715-722. (IF4.30, 1932-7455) P. Ghosh, A. Kar and A. Patra "Structural and Photoluminescence Properties of Doped and Surface LaPO-Manocrystals: Eu ³ - ion as a Spectroscopic Probe" J. Appl. Phys. 2010, 108, 113506 (8 pages). (IF 2.328) ISSN: 1351-6463. P. Ghosh, S. Kundu, A. Kar, K. V. Ramanujachary, S. Loflandand A. Patra "Synthesis and characterization of d shaped SmcDnanocrystals" J. Phys. D: Appl. Phys. 2010, 43, 405401 (7pages). (IF 2.829) ISSN: 1361-6463. P. Ghosh, S. Ede Rose, J. Oliva, D. Solis, A. Kar and A. Patra. "Influence of surface coating on the upconversion properties of LaPOs." b7 Im core-shell nanorods" J. Appl. Phys. 2009, 706, 113532 (5 pages). (IF 2.328) ISSN: 1361-6463. P. Ghosh and A. Patra. "Tuning of Crystal Phase and Luminescence Properties of Eu ³ - Doped Sodium Ythrum Nanocrystals" J. Phys. Chem. C 2008, 114, 399 ISSN: 1392-7455. P. Ghosh and A. Patra. "Hunnece of Crystal Phase and Excitation Wavelength on Luminescence Properties of Eu ³ - Doped Sodium Ythrium Fluoride Nanocrystals Phys. Chem. C 2008, 112, 19283-19292. (IF 4.309) ISSN: 1932-7455. P. Ghosh and A. Patra. "Crystal phase, shape and luminescence properties of LaPOs:Eu ³ -nanocrystals" J. Nanotech. 2006, 8, 3459-3464. (IF 1.093) ISSN: 1932-7455. P. Ghosh and A. Patra. "Grustal phase, shape and luminescence properties of Tio.; Eu ³ -nanocrystals" J. Nanotech. 2006, 8, 3469-3464. (IF 1.093) ISSN: 1937-7455. P. Ghosh and A. Patra. "Gole of surface coating Physical properties	2014		S. Tang, C. Lorbeer, X. Wang, P. Ghosh and A. V. Mudring "Highly luminescent salts of lanthanide (III) diethyl-2,2,2-trichloroacetylphosphoramidate with imidazolium counter cations" Inorg. Chem. 2014, 53, 9027-9035. (IF 4.850) ISSN: 1520-510X
Writium Fluoride Nanocrystals' NanoScale 2010, 2, 1196-1202, (This paper is published as part of a Nanosc themed issue on doped nanostructures) (IF.6.970) ISSN 2040-3372	2011		P. Ghosh, S. Tang and A.V. Mudring, Efficient quantum cutting in hexagonal NaGdF ₄ :Eu ³⁺ nanorods, J. Mat. Chem ., 2011 , 21, 8640-8644 (IF 6.626) [Selected as " Hot Article "] ISSN:1364-5501
fluoride nanocrystals: Influences of sonication and temperature" J. Phys. Chem. C 2010, 114, 715-722. (IF4.30, 1932-7455 P. Ghosh, A. Kar and A. Patra "Structural and Photoluminescence Properties of Doped and Surface LaPO-Manocrystals: Eu³-ion as a Spectroscopic Probe* J. Appl. Phys. 2010, 108, 113506 (8 pages). (IF 2.328) IS 7550 P. Ghosh, S. Kundu, A. Kar, K. V. Ramanujachary, S. Loflandand A. Patra "Synthesis and characterization of d shaped Sm ₂ O ₂ nanocrystals" J. Phys. D: Appl. Phys. 2010, 43, 405401 (7pages). (IF 2.829) ISSN: 1361-6463 2009 P. Ghosh, E. De la Rosa, J. Oliva, D. Solis, A. Kar and A. Patra. "Intenece of surface coating on the upconversion properties of Ela*D: V. Dri more shell nanoros* J. Appl. Phys. 2009, 106, 113532 (5 pages), (IF 2.329) ISSN: 1361-6463 2008 P. Ghosh and A. Patra. "Tuning of Crystal Phase and Luminescence Properties of Ela*D: Doped Sodium Yttrium Nanocrystals* J. Phys. Chem. C 2008, 112, 1923-1455 P. Ghosh and A. Patra. "Influence of Crystal Phase and Exciston Wavelength on Luminescence Properties of Esodium Yttrium Fluoride Nanocrystals* J. Phys. Chem. C 2008, 112, 19283-19292. (IF4.309) ISSN: 1932-7455 P. Ghosh and A. Patra. "Influence of Crystal Phase and Exciston Wavelength on Luminescence Properties of Esodium Yttrium Fluoride Nanocrystals* J. Phys. Chem. C 2008, 112, 19283-19292. (IF4.309) ISSN: 1932-7455 P. Ghosh and A. Patra. "Influence of Grystal Phase and Exciston Wavelength on Luminescence Properties of Esodium Yttrium Fluoride Nanocrystals* J. Phys. Sh. 1933-480 P. Ghosh, S. Sadhu, T. Sen and A. Patra. "Up-conversion emission of BaTiOs: Ernanocrystals* Bull. Mater. Sci issue 2008, 37, 461-465.(IF1.264) ISSN:0937-7669 P. Ghosh and A. Patra. "Influence of Surface Coating Physical properties of TiO ₂ / Eu³-nanocrystals* J. Phys. Chem. C 2007, 111, 571-578. (IF4.309) ISSN: 1932-7455 P. Ghosh, K. Priolkar and A. Patra. "Suder Coating Physical properties of Eu and Zr in Eu ₂ O ₃ oxide at ZrOranocrystals by EXAFS study* J. Phys. Chem. C 2007, 111, 571-578. (I	2010		P. Ghosh, A. Kar and A. Patra "Energy Transfer Study between Ce ³⁺ and Tb ³⁺ ions in Doped and Core-Shell Sodium Yttrium Fluoride Nanocrystals" Nanoscale 2010, 2, 1196-1202. (This paper is published as part of a Nanoscale themed issue on doped nanostructures) (IF 6.970) ISSN 2040-3372
LaPOuNanocrystal: Eu³- ion as a Spectroscopic Probe* J. Appl. Phys. 2010, 108, 113506 (8 pages). (IF 2.328) IS 7550 P. Ghosh, S. Kundu, A. Kar, K. V. Ramanujachary, S. Loflandand A. Patra "Synthesis and characterization of shaped SmyOnanocrystals* J. Phys. D: Appl. Phys. 2010, 43, 405401 (7pages). (IF 2.829) ISSN: 1361-6463 2009 P. Ghosh, E. De la Rosa, J. Oliva, D. Solis, A. Kar and A. Patra "Influence of surface coating on the upconversior properties of LaPOt: Yb /Tm core-shell nanorods* J. Appl. Phys. 2009, 105, 113532 (5 pages). (IF 2.328) ISSN: 1302-7455 P. Ghosh and A. Patra "Tuning of Crystal Phase and Luminescence Properties of Eu³-Deped Sodium Yttrium Nanocrystals* J. Phys. Chem. C 2008, 112, 323-3231. (IF 4.309) ISSN: 1932-7455 P. Ghosh, J. Oliva, E. De la Rosa, K. K. Haldar, D. Solis and A. Patra. "Enhancement of Upconversion Emission Er @Yo Core-Shell Nanoparticles / Nanorods* J. Phys. Chem. C 2008, 112, 9650-9658.(If 4.309) ISSN: 1932-7455 P. Ghosh and A. Patra. "Influence of Crystal Phase and Excitation Wavelength on Luminescence Properties of E. Sodium Yttrium Fluoride Nanocrystals* J. Phys. Chem. C 2008, 112, 19283-19292. (If 4.309) ISSN: 1932-7455 P. Ghosh and A. Patra. "Crystal phase, shape and luminescence properties of LaPOu.Eu³-nanocrystals* J. N. Nanotech. 2008, 8, 3458-3464. (If 1.093) ISSN:1533-4880 P. Ghosh and A. Patra. "Influence of Surface Coating Physical properties of TiO ₂ / Eu³-nanocrystals* J. Phys. 2007, 111, 7004-7010. (If 4.309) ISSN: 1932-7455 P. Ghosh, K. Priolikar and A. Patra. "Understanding the local structures of Eu and Zr in Eur.O3 oxide an ZrO3-nanocrystals by EXAFS study J. Phys. Chem. C 2007, 111, 571-576. (If 4.309) ISSN: 1932-7455 P. Ghosh, K. Priolikar and A. Patra. "Understanding the local structures of Eu and Zr in Eur.O3 oxide an ZrO3-nanocrystals by EXAFS study J. Phys. Chem. C 2007, 117, 571-576. (If 4.309) ISSN: 1932-7455 P. Ghosh, S. Sadhu and A. Patra. "Preparation and photoluminescence properties of YySiO ₅ : Eu³-nanocrystals Chem. Chem. Phys. 2006, 8			P. Ghosh, A. Kar and A. Patra. "Structural changes and spectroscopic properties of Ce ³⁺ ion doped sodium yttrium fluoride nanocrystals: Influences of sonication and temperature" J. Phys. Chem. C 2010, 114, 715-722. (IF4.309) ISSN: 1932-7455
shaped Sm ₂ O _n annocrystals' J. Phys. D: Appl. Phys. 2010, 43, 405401 (7pages). (IF 2.829) ISSN: 1361-6463 P. Ghosh, E. De la Rosa, J. Oliva, D. Solis, A. Kar and A. Patra. "Influence of surface coating one properties of LaPO _x : Yb /Tm core-shell nanorods' J. Appl. Phys. 2009, 105, 113532 (5 pages). (IF 2.328) ISSN: 1909-1109. Phys. 2009, 105, 113532 (5 pages). (IF 2.328) ISSN: 1932-7455 P. Ghosh, J. Oliva, E. De la Rosa, K. K. Haldar, D. Solis and A. Patra: "Enhancement of Upconversion Emission Er @Yb Core-Shell Nanoparticles / Nanorods' J. Phys. Chem. C 2008, 112, 9550-9658.(IF4.309) ISSN: 1932-7455 P. Ghosh and A. Patra: "Influence of Crystal Phase and Excitation Wavelength on Luminescence Properties of Exodium Yttrium Fluoride Nanocrystals' J. Phys. Chem. C 2008, 112, 9560-9658.(IF4.309) ISSN: 1932-7455 P. Ghosh and A. Patra: "Influence of Crystal Phase and Excitation Wavelength on Luminescence Properties of Exodium Yttrium Fluoride Nanocrystals' J. Phys. Chem. C 2008, 112, 19283-19292. (IF4.309) ISSN: 1932-7455 P. Ghosh, S. Sadhu, T. Sen and A. Patra: "Up-conversion emission of BaTiO ₃ : Ernanocrystals' Bull. Mater. Sci issue 2008, 31, 461-465.(IF 1.264) ISSN:0973-7669 P. Ghosh and A. Patra: "Influence of Surface Coating Physical properties of TiO ₂ / Eu³-nanocrystals' J. Phys. 2007, 111, 7004-7010. (IF4.309) ISSN: 1932-7455 P. Ghosh, K. Priolkar and A. Patra: "Understanding the local structures of Eu and Zr in Eu;O ₃ oxide at ZrO ₂ nanocrystals by EXAFS study' J. Phys. Chem. C 2007, 111, 571-578. (IF4.309) ISSN: 1932-7455 P. Ghosh, K. Priolkar and A. Patra: "Understanding the local structures of Eu and Zr in Eu;O ₃ oxide at ZrO ₂ nanocrystals by EXAFS study' J. Phys. Chem. C 2007, 111, 571-578. (IF4.309) ISSN: 1932-7455 P. Ghosh and A. Patra: "Understanding the local structures of Eu and Zr in Eu;O ₃ oxide at ZrO ₂ nanocrystals by ExAFS study' J. Phys. Chem. C 2007, 111, 571-578. (IF4.309) ISSN: 1932-7455 P. Ghosh and A. Patra: "Preparation and photoluminescence properties of Y2SiO ₅ : Eu³			P. Ghosh, A. Kar and A. Patra "Structural and Photoluminescence Properties of Doped and Surface Coated LaPO ₄ Nanocrystal: Eu ³⁺ ion as a Spectroscopic Probe" J. Appl. Phys. 2010,108, 113506 (8 pages). (IF 2.328) ISSN:1089-7550
properties of LaPO4: Yb /Tm core-shell nanorods" J. Appl. Phys. 2009, 105, 113532 (5 pages). (IF 2.328) ISSN:1 P. Ghosh and A. Patra. "Tuning of Crystal Phase and Luminescence Properties of Eu³ Doped Sodium Yttrium Nanocrystals" J. Phys. Chem. C 2008, 112, 2953-2321. (IF 4.309) ISSN: 1932-75. P. Ghosh, J. Oliva, E. De la Rosa, K. K. Haldar, D. Solis and A. Patra. "Enhancement of Upconversion Emission Er (g)Yb Core-Shell Nanoparticles / Nanorods" J. Phys. Chem. C 2008, 112, 9650-9658, (IF 4.309) ISSN: 1932-7455. P. Ghosh and A. Patra. "Crystal Phase and Excitation Wavelength on Luminescence Properties of E Sodium Yttrium Fluoride Nanocrystals" J. Phys. Chem. C 2008, 112, 19283-19292. (If 4.309) ISSN: 1932-7455. P. Ghosh and A. Patra. "Crystal phase, shape and luminescscence properties of LaPO4: Eu³ nanocrystals" J. N Nanotech. 2008, 3, 3458-3464. (IF 1.093) ISSN: 1932-7455. P. Ghosh, S. Sadhu, T. Sen and A. Patra. "Up-conversion emission of BaTiO3: Emanocrystals." J. N Nanotech. 2008, 31, 461-465. (IF 1.264) ISSN: 0973-7669. 2007 P. Ghosh and A. Patra. "Influence of Surface Coating Physical properties of TiO2 / Eu³-nanocrystals" J. Phys. 2007, 111, 7004-7010. (IF4.309) ISSN: 1932-7455. P. Ghosh, K. Priolkar and A. Patra. "Understanding the local structures of Eu and Zr in Eu ₂ O ₃ oxide an ZrO ₂ nanocrystals by EXAFS study" J. Phys. Chem. C 2007, 111, 571-578. (IF4.309) ISSN: 1932-7455. P. Ghosh, M. Priolkar and A. Patra. "Study of photophysical properties of capped CdSnanocr Luminescence, 2007, 124, 327-332. (IF2.961) ISSN: 0022-2313. 2006 P. Ghosh, S. Sadhu and A. Patra. "Study of photophysical properties of capped CdSnanocrystals" of P. Ghosh, S. Sadhu and A. Patra. "Preparation and photoluminescence properties of Y ₂ SiO ₃ : Eu³-nanocrystals" Chem. Chem. Phys. 2006, 8, 3342-3348. (This paper is published as part of themed issue on Nano Nanotechnology) (If 3.567) ISSN 1463-9084. 2005 P. Ghosh and A. Patra. "Understanding the influence of nano-environment on luminescence of rare-earth ions" (2005, 6		•	P. Ghosh, S. Kundu, A. Kar, K. V. Ramanujachary, S. Loflandand A. Patra "Synthesis and characterization of different shaped Sm ₂ O ₃ nanocrystals" J. Phys. D: Appl. Phys.2010, 43, 405401 (7pages). (IF 2.829) ISSN: 1361-6463
Nanocrystals" J. Phys. Chem. Č 2008, 112, 3223-3231. (IF4.309) ISSN: 1932-7455 P. Ghosh, J. Oliva, E. De la Rosa, K. K. Haldar, D. Solis and A. Patra. "Enhancement of Upconversion Emission Er @Yb Core-Shell Nanoparticles / Nanorods" J. Phys. Chem. C 2008, 112, 9650-9658. (IF4.309) ISSN: 1932-7455 P. Ghosh and A. Patra. "Influence of Crystal Phase and Excitation Wavelength on Luminescence Properties of E Sodium Ytthium Fluoride Nanocrystals" J. Phys. Chem. C 2008, 112, 19283-19292. (IF4.309) ISSN: 1932-7455 P. Ghosh and A. Patra. "Crystal phase, shape and luminescence properties of LaPO ₄ :Eu³-nanocrystals". J. N Nanotech. 2008, 8, 3458-3464. (IF 1.093) ISSN: 1533-4880 P. Ghosh, S. Sadhu, T. Sen and A. Patra. "Up-conversion emission of BaTiO ₂ : Emanocrystals." Bull. Mater. Sci i issue 2008, 31, 461-465.(IF 1.264) ISSN:0973-7669 2007 P. Ghosh and A. Patra. "Influence of Surface Coating Physical properties of TiO ₂ / Eu³-nanocrystals" J. Phys. 2007, 111, 7004-7010. (IF4.309) ISSN: 1932-7455 P. Ghosh, K. Priolkar and A. Patra. "Understanding the local structures of Eu and Zr in Eu ₂ O ₃ oxide an ZrO ₂ nanocrystals by EXAFS study" J. Phys. Chem. C 2007, 111, 571-578. (IF4.309) ISSN: 1932-7455 P. S. Chowdhury, P. Ghosh and A. Patra. "Study of photophysical properties of capped CdSnanocr Luminescence, 2007, 124, 327-332. (IF2.961) ISSN: 0022-2313 2006 P. Ghosh and A. Patra "Role of surface coating in ZrO ₂ /Eu³-nanocrystals" Langmuir, 2006, 22, 6321-6327. ISSN: 0743-7463 P. Ghosh, S. Sadhu and A. Patra. "Preparation and photoluminescence properties of Y ₂ SiO ₅ : Eu³-nanocrystals" Langmuir, 2006, 28, 3342-3348. (This paper is published as part of themed issue on Nano Nanotechnology) (IF 3.567) ISSN 1463-9084 2005 A. Patra, P. Ghosh, P. S. Chowdhury, Márcio A. R. C. Alencar, W. Lozano B., N.Rakov, and G. S. Maciel. "Returableupconversion in Tm³ doped ZrO ₂ nanocrystals" J. Phys. Chem. B, 2005, 109, 10142-10146. (IF2.9 1520-5207 P. Ghosh and A. Patra. "Understanding the influence of nano-environment	2009	•	P. Ghosh, E. De la Rosa, J. Oliva, D.Solis, A. Kar and A. Patra. "Influence of surface coating on the upconversion emission properties of LaPO ₄ : Yb /Tm core-shell nanorods" J. Appl. Phys. 2009,105, 113532 (5 pages). (IF 2.328) ISSN:1089-7550
Er @Yb Core-Shell Nanoparticles / Nanorods" J. Phys. Chem. C 2008, 112, 9650-9658.(iF4.309) ISSN: 1932-7 • P. Ghosh and A. Patra. "Influence of Crystal Phase and Excitation Wavelength on Luminescence Properties of E Sodium Yttrium Fluoride Nanocrystals". J. Phys. Chem. C 2008, 112, 19283-19292. (iF4.309) ISSN: 1932-7455 • P. Ghosh and A. Patra. "Crystal phase, shape and luminescence properties of LaPOx:Eu³-nanocrystals". J. N. Nanotech. 2008, 8, 3458-3464. (iF 1.093) ISSN:1533-4880 • P. Ghosh, S. Sadhu, T. Sen and A. Patra. "Up-conversion emission of BaTiO3: Ernanocrystals." Bull. Mater. Sci i issue 2008, 31, 461-465.(iF 1.264) ISSN:0973-7669 2007 • P. Ghosh and A. Patra. "Influence of Surface Coating Physical properties of TiO2 / Eu³-nanocrystals" J. Phys. 2007, 111, 7004-7010. (iF4.309) ISSN: 1932-7455 • P. Ghosh, K. Priolkar and A. Patra. "Understanding the local structures of Eu and Zr in Eu ₂ O ₃ oxide an ZrO₂nanocrystals by EXAFS study"J. Phys. Chem. C 2007, 111, 571-578. (iF4.309) ISSN: 1932-7455 • P. S. Chowdhury, P. Ghosh and A. Patra. "Study of photophysical properties of capped CdSnanocr Luminescence, 2007, 124, 327-332. (iF2.961) ISSN: 0022-2313 2006 • P. Ghosh and A. Patra "Role of surface coating in ZrO₂/Eu³-nanocrystals" Langmuir, 2006, 22, 6321-6327. ISSN: 0743-7463 • P. Ghosh, S. Sadhu and A. Patra. "Preparation and photoluminescence properties of Y₂SiO ₅ : Eu³-nanocrysta Chem. Chem. Phys. 2006, 8, 3342-3348. (This paper is published as part of themed issue on Nano Nanotechnology) (iF 3.567) ISSN 1463-9084 2005 • A. Patra, P. Ghosh, P. S. Chowdhury, Márcio A. R. C. Alencar, W. Lozano B., N.Rakov, and G. S. Maciel. "R tunableupconversion in Tm³- doped ZrO₂nanocrystals" J. Phys. Chem. B, 2005, 109, 10142-10146. (IF2.9 1520-5207 • P. Ghosh, C. Lorbeer and A. V. Mudring "Nanofluorides for environmentally benign lighting and energy conversion cells" in: D. J. Nelson and C. N. Brammer (Eds.) Fluorine-related Nanoscience with Energy Applicatic Symposium Series, Vol.1064), 2011, Chapter 6	2008	•	P. Ghosh and A. Patra. "Tuning of Crystal Phase and Luminescence Properties of Eu ³⁺ Doped Sodium Yttrium Fluoride Nanocrystals". J. Phys. Chem. C 2008, 112, 3223-3231. (IF4.309) ISSN: 1932-7455
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tunableupconversion in Tm³+ - doped ZrO₂nanocrystals" J. Phys. Chem. B, 2005, 109, 10142-10146. (IF2.9 1520-5207 • P. Ghosh and A. Patra. "Understanding the influence of nano-environment on luminescence of rare-earth ions" 2005, 65, 901-907.(IF 1.185) ISSN: 0973-7111 Chapters in Books Year (with author(s), title of chapter, title of the book with author name, name of publisher, year of Publication, ISBN) • P. Ghosh, C. Lorbeer and A. V. Mudring "Nanofluorides for environmentally benign lighting and energy conversion cells" in: D. J. Nelson and C. N. Brammer (Eds.) Fluorine-related Nanoscience with Energy Application Symposium Series, Vol.1064), 2011, Chapter 6, pp 87–99. ISBN13: 9780841226104 eISBN: 978084122611 National Seminar/Conference/Workshops (Attended) Year (with topic, date and venue)			P. Ghosh, S. Sadhu and A. Patra. "Preparation and photoluminescence properties of Y ₂ SiO ₅ : Eu³+nanocrystals" Phys. Chem. Chem. Phys, 2006, <i>8</i> , 3342-3348. (This paper is published as part of themed issue on Nanoscience& Nanotechnology) (IF 3.567) ISSN 1463-9084
Chapters in Books Year (with author(s), title of chapter, title of the book with author name, name of publisher, year of Publication, ISBN) P. Ghosh, C. Lorbeer and A. V. Mudring "Nanofluorides for environmentally benign lighting and energy conversic cells" in: D. J. Nelson and C. N. Brammer (Eds.) Fluorine-related Nanoscience with Energy Application Symposium Series, Vol.1064), 2011, Chapter 6, pp 87–99. ISBN 13: 9780841226104 eISBN: 978084122611 National Seminar/Conference/Workshops (Attended) Year (with topic, date and venue)	2005		A. Patra, P. Ghosh , P. S. Chowdhury, Márcio A. R. C. Alencar, W. Lozano B., N.Rakov, and G. S. Maciel. "Red to blue tunableupconversion in Tm ³⁺ - doped ZrO ₂ nanocrystals" J. Phys. Chem. B, 2005, 109, 10142-10146. (IF 2.923) ISSN: 1520-5207
Year (with author(s), title of chapter, title of the book with author name, name of publisher, year of Publication, ISBN) P. Ghosh, C. Lorbeer and A. V. Mudring "Nanofluorides for environmentally benign lighting and energy conversion cells" in: D. J. Nelson and C. N. Brammer (Eds.) Fluorine-related Nanoscience with Energy Application Symposium Series, Vol.1064), 2011, Chapter 6, pp 87–99. ISBN 13: 9780841226104 eISBN: 978084122611 National Seminar/Conference/Workshops (Attended) Year (with author(s), title of chapter, title of the book with author name, name of publisher, year of Publication, ISBN) • P. Ghosh, C. Lorbeer and A. V. Mudring "Nanofluorides for environmentally benign lighting and energy conversion cells" in: D. J. Nelson and C. N. Brammer (Eds.) Fluorine-related Nanoscience with Energy Application Symposium Series, Vol.1064), 2011, Chapter 6, pp 87–99. ISBN 13: 9780841226104 eISBN: 978084122611			P. Ghosh and A. Patra. "Understanding the influence of nano-environment on luminescence of rare-earth ions" Pramana , 2005 , 65 , 901-907 .(IF 1.185) ISSN: 0973-7111
P. Ghosh, C. Lorbeer and A. V. Mudring "Nanofluorides for environmentally benign lighting and energy conversion cells" in: D. J. Nelson and C. N. Brammer (Eds.) Fluorine-related Nanoscience with Energy Application Symposium Series, Vol.1064), 2011, Chapter 6, pp 87–99. ISBN 13: 9780841226104 eISBN: 978084122611 National Seminar/Conference/Workshops (Attended) Year (with topic, date and venue)	hapters in E	Books	
cells" in: D. J. Nelson and C. N. Brammer (Eds.) Fluorine-related Nanoscience with Energy Application Symposium Series, Vol.1064), 2011, Chapter 6, pp 87–99. ISBN 13: 9780841226104 eISBN: 978084122611 National Seminar/Conference/Workshops (Attended) Year (with topic, date and venue)	,		
Year (with topic, date and venue)			
2013 to 2020)	(From 2013 to	(with top	ic, date and venue)

Oral presentations:

- P. Ghosh and A. Patra "Role of crystal phase and excitation wavelength on luminescence properties of rare-earth doped nanocrystals." Oral Presentation in National Conference on Luminescence and its Applications on 19th-21st February, 2009
- P. Ghosh and A. Patra "Synthesis, characterization and understanding the local structure of Eu₂0₃ coated and doped Zr₀2nanocrystal" Oral Presentation in International Conference on 'Structure and Dynamics: from Micro to Macro' University of Calcutta, December, 2006.
- P. Ghosh and A. Patra "Rare-earth doped nanomaterials and its luminescence property" Oral Presentation in the Materials Research Society of India (Kolkata Chapter) on 2006 at Bengal Engineering and Science University, Shibpur, Howrah, West Bengal.

Poster presentations:

- R. K. Sharma, Y. N. Chouryal and P. Ghosh "Role of Secondary Nucleation on Structural and Optical Properties of Rare-Earth Doped Nanoparticles Morphed via Ionic Liquids" DAE-BRNS 7th Interdisciplinary Symposium on Materials Chemistry, December 4-8,2018, Mumbai, India
- R. K. Sharma and <u>P Ghosh</u> "Optoelectronic Nano Materials via Ionic Liquid Based Green Synthesis" 23rd CRSI National Symposium in Chemistry (CRSI-NSC-23) conducted by IISER Bhopal on July 13-15, 2018.
- P. Ghosh "Ionic Liquid Based Synthesis ofQuantum Cutting NaGdF₄NanocrystalsandTheirSpontaneous Phase Transition"
 6th Interdisciplinary Symposium on Materials Chemistry (ISMC) conducted by Chemistry Division, BhabhaAtomic Research Centre on December-06-10, 2016(BARC).
- R. K. Sharma, Y. N. Chouryal and P. Ghosh "Ionic Liquid Based Synthesis of Indium Sulphide Nanoparticles and their Photocatalytic Application" DAE-BRNS 6th Interdisciplinary Symposium on Materials Chemistry, December 6-10,2016, Mumbai, India.
- P. Ghosh "Quantum Cutting Nanomaterials for Energy Efficient Lighting from Ionic Liquids" 18th National Symposium in Chemistry (CRSI-2016) held from February 5th -7th 2016 organized by Institute of Nano Science and Technology (INST) and Panjab University.
- P. Ghosh and R.K. Sharma "Energy Efficient Lighting Nanomaterials via Ionic Liquids" 5th Interdisciplinary Symposium on Materials Chemistry (ISMC) conducted by Chemistry Division, Bhaba Atomic Research Centre on December-09-13, 2014. (BARC)
- P. Ghosh and R.K. Sharma "Facile Preparation of Quantum Cutting Hexagonal NaGdF4:Eu³⁺ Nanoparticles from Ionic Liquids". Rare Earth Processing and Utilization (REPUT-2014) conducted by Rare Earth Association of India (REAI) in association with IIM, Mumbai Chapter, MRSI, Mumbai Chapter and BRNS, Mumbai on May-2 & 3, 2014. The poster won 2nd prize in the competition.
- P. Ghosh and A.V. Mudring "Facile preparation of quantum cutting hexagonal NaGdF4:Eu³⁺ nanoparticles from ionic liquid".Network Meeting of the Alexander von Humboldt Foundation, Freiberg (Saxony), Germany, 23-25 November, 2010.
- P. Ghosh A. Kar and A.Patra"Role of crystal phase on luminescence properties of Eu³⁺ doped sodium yttrium fluoride nanocrystals." poster presentation in the NANO MISSION-DST 2009 organized by S. N. Bose National Centre for Basic Science on 12-14th March, 2009.
- P. Ghosh A. Kar and A.Patra"Role of crystal phase on luminescence properties of Eu³⁺ doped sodium yttrium fluoride nanocrystals." poster presentation in the 'Materials Research Society of India Annual General meeting' (MRSI AGM-2009) on 10-12th February, 2009.
- P. Ghosh and A. Patra "Role of crystal phase on luminescence properties of Eu³⁺ doped sodium yttrium fluoride nanocrystals." Awarded 3rd prize for poster presentation in the 'National Symposium for Materials Research Scholars' (MR 08) conducted by IIT Bombay as the institute was celebrating their Golden Jubillee celebration on 17-18th May,2008. The poster won 3rd Best prize in the competition.

Internation	sternational Seminar/Conference/Workshops (Attended)				
Year	(with topic, date and venue)				
(From					
2013 to					
2020)					
	Attended EUCHEM 2010 on Ionic Liquids, Bamberg, Germany, 2010				
National S	Seminar/Conference/Workshops (Organised)				
Year	(with topic, date and venue)				
(From					
2013 to					
2020)					
	As Co-Convener to organize DST-PURSE sponsored Workshop on Advance Imaging and Microscopy, 2019				
	 Information Session by Mrs. Subhadha Choudhury, Head, DAAD (German Academic Exchange Service) information centre, 2017 				

As Organizing Secretary to organize "Science Fair and National Science Day-2016" from 26.02.2016 to 04.03.2016 on the theme "Make in India: S&T Driven Innovation". Managed to get funding (Rs. 100,000/-) from Madhya Pradesh Council of Science and Technology along with Rs. 100,000/ from University to organize the event successfully As Joint Secretary to organize National symposium on "Horizons of light in molecules, materials and daily life" to celebrate the International Year of Light-2015 decleared by UNESCO, 2015 Organized "National Science Day-2015" on the theme "Science for Nation Building", 2015 Organized "National Science Day-2014" on the theme "Fostering Scientific Temper", 2014 Managed to get funding (Rs. 50,000/-) from Madhya Pradesh Council of Science and Technology along with Rs. 10,000/ from University to organize the event successfully International Seminar/Conference/Workshops (Organised) Year (with topic, date and venue) (From 2013 to 2020) As Co-Convener to organize "International Conference on Interface of Physical, Chemical and Biological Sciences, 2017 Research Papers in Proceedings (National Seminar/Conference/Workshops) (with title of the paper, Title of the proceedings vol., name of the publisher, Year, page nos.) (From 2013 to 2020) 2015 P. Ghosh"Recent Trends in Rare-Earth Doped Nanophosphors" Proceedings of DAE-BRNS 3rd National Workshop on Materials Chemistry (Optical Materials) [NWMC-2015 (OPT-MAT)] at Bhabha Atomic Research Centre, Mumbai on November 20-21, 2015, Page No 86. 2009 P. Ghosh, and A. Patra, "Role of crystal phase on the luminescence properties of rare-earth doped nanomaterials." National Conference on Luminescence and its Applications (NCLA-2009) at Kolkata, India, February, 2009. Research Papers in Proceedings (International Seminar/Conference/Workshops) (with title of the paper, Title of the proceedings vol., name of the publisher, Year, page nos.) Year (From 2013 to 2020) 2018 P. Ghosh "Smart Materials via Ionic Liquids" Proceedings of DAE-BRNS 7th Interdisciplinary Symposium on Materials Chemistry, December 4-8, 2018, SL-4,108-109 Mumbai, India (ISBN No. 81-88513-88-1). R. K. Sharma, Y. N. Chouryal and P. Ghosh "Role of Secondary Nucleation on Structural and Optical Properties of Rare-Earth Doped Nanoparticles Morphed via Ionic Liquids" Proceedings of DAE-BRNS 7th Interdisciplinary Symposium on Materials Chemistry, December 4-8,2018,C-173, 186, Mumbai, India (ISBN No. 81-88513-88-1). 2016 P. Ghosh "Ionic Liquid Based Synthesis of Quantum Cutting NaGdF4 Nanocrystals and their Spontaneous Phase Transition" Proceedings of DAE-BRNS 6th Interdisciplinary Symposium on Materials Chemistry, December 6-10, 2016, C 153, Mumbai, India (page No-284-286) (ISBN No. 81-88513-76-8). 2014 R. K. Sharma, Y. N. Chouryal and P. Ghosh "Ionic Liquid Based Synthesis of Indium Sulphide Nanoparticles and their Photocatalytic Application" Proceedings of DAE-BRNS 6th Interdisciplinary Symposium on Materials Chemistry, December 6-10.2016.H-108. Mumbai, India (page No-457-459) (ISBN No. 81-88513-76-8). No. of Patents Filed (with date, title and other details) Year (From 2013 to 2020) 2019 R. K. Sharma, and P. Ghosh "Luminescent Nanocomposites of Rare-Earth Doped Fluorides and Graphene Oxide Using Ionic Liquid and Method of Preparation Thereof" Indian Patent Application No: 20192102574 (Filed on 27th June, 2019). No. of Patents Awarded (with title and other details) Year (From 2013 to 2020) 2014 A. V. Mudring, J. Cybinska, P. Campbell, C. Lorbeer, D. Pitz, N. V. Prondzinskii and P. Ghosh, "Phosphor composite material and method of manufacturing the same" German Patent No: DE 102012105782 A1. [Published online on 02.01.2014. Link: http://www.google.com/patents/DE102012105782A1?cl=en]. This invention won the award of one of the best three inventions from Ruhr University Bochum in 2012. The competition was conducted by Ruhr University Bochum and rubitec GmbH (http://www.rubitec.de/archiv/09092013-preise-im-erfinderwettbewerb.html).

nvited Lect	ures delivered (Outside University) with title, date and place					
Year						
(From						
2013 to 2020)						
2020)	Humboldt Kolleg on "Food, Livelihood, Opportunity are	ad Wood (Flow) " 2020 at Paighale MD				
		and Chemistry Education & National Convention of Chemistry Teachers"				
	conducted by Sant Gadge Baba Amravati University, 20					
ļ.		mistry (Nano & Composite Materials), 2019 Manipal University Jaipur,				
	Rajasthan					
		s Chemistry conducted by Chemistry Division, Bhabha Atomic Research				
	Centre (BARC), 2018, Mumbai, India					
		opy of Crystals Doped with Rare Earth and Transition Metal Ions (IFS-				
	2018), Russia, 2018 Humboldt Kolleg on "Climate Change and Energy Ont	ions & 2 nd Regional Network Meeting of Asian Alumni of the International				
	Climate Protection Fellowship Programme" 2018 at Aur					
		omy and Environment: Future Strategies" conducted by Govt. P.G.				
	(Autonomous College), Datia, Madhya Pradesh, 2017	,				
ŀ		nce conducted by Central University of Jharkhand, Ranchi, 2017				
ľ		conducted by Chemistry Division, Bhabha Atomic Research Centre, 2016				
ľ	 Jar DAE-BRNS National Workshop for Materials Chem Division, Bhabha Atomic Research Centre, 2015 	nistry organized by Society for Materials Chemistry, India & Chemistry				
No. of Ph.D						
	Scholars working: 02					
No. of Forei	5					
Year	Name of the country, Date, Place, Purpose of visit, duratic	on, etc.				
From 2013						
to 2020)						
2013		009 to October 2013), Doing Post Doctoral Research in Alexander von				
	Humboldt Fellowship and in European Research					
2018	Ural Federal State University, Yekaterinburg, Russia. Give an Invited Lecture at XVII International Feofilov					
	Symposium on Spectroscopy of Crystals Doped with Rare Earth and Transition Metal Ions (IFS-2018), Russia, 2018					
<u> </u>	member: Alexander von Humboldt Foundation	Life member: Society for Materials Chemistry" (SMC)				
	member: Chemical Research Society of India (CRSI)	Life member: Goodsty for Materials Charmstry (GMO) Life member: Indian Association for the Cultivation of Science,				
• Life member. Chemical Research Society of India (CRSI) • Life member. Indian Association for the Cultivation of Science, Kolkata, India						
Life member: Birsingha Vidyasagar Memorial Rural Library						
Birsingha, Midnapore (West), West Bengal						
Other Academic Achievements:						
(i) Revie	(i) Reviewer of the Journal(s) (With details of the journal(s) and duration)					
•	Various Journals of American Chemical Society,					
 Various Journals of American Chemical Society, Wiley Online Library, Elsevier etc. 						
(ii) Membership of the Board of Studies/School Board / Academic Council/ Executive Council (Within/ outside the university)						
•	Different committees of Department and University					
•	Placement Cell Officer of the Department of Chemistry					
•		e (SEM); BET Surface Area Analyzer which are under Sophisticated				
	Instrumentation Centre(SIC)					