



Detail Bio-data

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Designation	Associate Professor	
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Web-Page	Google scholar: https://scholar.google.co.in/citations?user=31LEM84AAAAJ&hl=en Orcid: https://orcid.org/0000-0003-4794-0406 Vidwan: https://du.irins.org/profile/210836	
Educational Qualifications		
Degree	Institution	Year, Division
Ph.D.	Ph.D. (Chemistry), National Chemical Laboratory (NCL), Pune. Degree awarded by University of Pune (presently Savitribai Phule Pune University)	January, 2007
PG	M.Sc. (Chemistry), Gauhati University, Guwahati	2001, 1 st Div.
Career Profile		
<p>May 2019 – till date: Associate Professor, Department of Chemistry, University of Delhi, Delhi-110007.</p> <p>1st June, 2010 – May, 2019: Assistant Professor, Department of Chemistry, University of Delhi, Delhi.</p> <p>Visiting Fellow, School of Physical Sciences (SPS), 2019, JNU, New Delhi.</p> <p>Adjunct Faculty (October, 2017): Department of Chemistry, Islamic University of Science & Technology (IUST), Pulwama, Awantipora, Jammu and Kashmir, PIN-192122.</p> <p>2009 - 2010: Senior Post Doctoral Researcher, Italian Institute of Technology (IIT), Genova, Italy.</p> <p>2007 - 2009: Post Doctoral Researcher, National Nanotechnology Laboratory, Scuola Superiore ISUFI, University of Salento, Lecce, Italy.</p> <p>2001 - 2002: Project Research Fellow, Institute of Advance Study in Science and Technology (DST-IASST), Guwahati, India.</p>		
Areas of Interest / Specialization		
Inorganic chemistry; Manipulation at the Interface and crystal facets, Advanced nanomaterials for energy conversion and storage (sustainable development); Nanomaterials for catalysis.		

Publications Profile

Total number of publications = 68
 Peer reviewed international journal = 64
 Research papers published in refereed international conference proceedings = 04
 Peer reviewed national journal = 01
 Books = 02
 Patent = 02
 Book chapter = 01

Google scholar Citations till date: ~3700, h-index: 33.

Research papers published in Refereed/Peer Reviewed Journals

Sl. No.	Authors (in order) (* corresponding)	Title of the research paper	Name of the Journal	Year, volume, page number	Impact factor
1.	Kumar, L.; Antil, B.; Kumar, A.; Das, M. R.; Deka; Sasanka*	A Superior and Stable Electrocatalytic Oxygen Evolution Reaction by One-Dimensional FeCoP Colloidal Nanostructures	ACS Appl. Mater. Interfaces	2022, 14, 5468–5477	9.229
2.	Antil, B.; Kumar, L.; Das, M.R.; Deka, Sasanka*	N-doped graphene modulated N-rich carbon nitride realizing a promising all-solid-state flexible supercapacitor	Journal of Energy Storage	2022, 52, 104731	6.583
3.	J.; Muhommad, L.; Kumar, P.K.; Baruah, M.R.; Das, Deka; Sasanka*	All-Solid-State Flexible Symmetric Supercapacitor Based on Morphology Oriented Amorphous Cu-Co-B Alloy Nanosheets for Energy Storage.	Batteries & Supercaps	2022, 5(3), e202100314	7.093
4.	Kumar, L.; Baruah, P. K; Borthakur, S.; Saikia, L.; Das, M. R.; Deka; Sasanka*	CuCo-Layered Double Hydroxide Nanosheet-Based Polyhedrons for Flexible Supercapacitor Cells	ACS Appl. Nano Mater.	2021, 4, 5250-5262	5.097
5.	Antil, B.; Kumar, L.; Ranjan, R.; Shenoy, S.; Tarafder, K.; Gopinath, C. S.; Deka; Sasanka*	One-Dimensional Multichannel g-C ₃ N ₄ .7 Nanostructure Realizing an Efficient Photocatalytic Hydrogen Evolution Reaction and Its	ACS Applied Energy Materials,	2021, 4 (4), 3118-3129	6.024

		Theoretical Investigations			
6.	Antil, B.; Ranjan, R.; Chinnakonda, G. S.; Deka; Sasanka*	Directed Holey and Ordered g-C ₃ N _{4.5} Nanosheets by Hard Template Nanocasting Approach for Sustainable Visible-Light Hydrogen Evolution with Prominent Quantum Efficiency	J. Mater. Chem. A,	2020, 8, 13328-13339	12.73
7.	Kumar, L.; Chauhan, M.; Boruah, P. K.; Das, M. R.; Hashmi, S. A.; Deka; Sasanka*	Coral Shaped Bifunctional NiCo ₂ O ₄ Nanostructure: A Material for highly Efficient Electrochemical Charge Storage and Electrocatalytic Oxygen Evolution Reaction	ACS Appl. Energy Mater.	2020, 3(7), 6793–6804	6.024
8.	Kumar, A.; Deka; Sasanka*	PdSn Hollow Alloy Nanoparticles Prepared by in-situ Galvanic Replacement Process for Exclusive Hydrogen Evolution Reaction and Durable Electrocatalysis	Applied Catalysis A: General,	2020, 599, 117575	5.706
9.	Chauhan, M.; Deka; Sasanka*	Hollow Cobalt Sulfide Nanoparticles: A Robust and Low-Cost pH-Universal Oxygen Evolution Electrocatalyst	ACS Applied Energy Materials	2019, 3, 977-986	6.024
10.	Kumar, L.; Boruah, P. K.; Das, M. R.; Deka; Sasanka*	Superbending (0° -180°) and High-Voltage Operating Metal-Oxide-Based Flexible Supercapacitor	ACS Appl. Mater. Interfaces	2019, 11, 37665-37674	9.229
11.	Soni. K.; Chauhan, M.; Deka; Sasanka*	Hydrothermally Synthesized CuCo ₂ S ₄ Nanosheets as an Easily Accessible and Convenient Heterogeneous Catalyst for the Sonogashira Cross-Coupling Reactions	Frontiers in Materials	2019, 6, 273	3.515
12.	Antil, B.; Kumar, L.; Reddy, K. P.; Gopinath, C. S.; Deka; Sasanka*	Direct thermal polymerization approach to N-rich holey carbon nitride nanosheets and their promising photocatalytic H ₂ evolution and charge storage activities	ACS Sustainable Chem. Eng.	2019, 7, 9428-9438	8.198

13.	Chauhan, M.; Soni, K.; Karthik, E. K.; Reddy, K. P.; Gopinath, C. S.; Deka; Sasanka*	A Promising Visible-Light Driven Hydrogen Production from Water on Highly Efficient CuCo ₂ S ₄ Nanosheets Photocatalyst	J. Mater. Chem. A,	2019, 7, 6985-6994	12.73
14.	Kush, P.; Deka; Sasanka*	Multifunctional Copper-Based Quaternary Chalcogenide Semiconductors Toward State-of-the-Art Energy Applications	ChemNanoM at,	2019, 5, 373-402	3.154
15.	Kumar, L.; Chauhan, H.; Yadav, N.; Yadav, N.; Hashmi, S. A.; Deka; Sasanka*	Faster ion switching NiCo ₂ O ₄ nanoparticle electrode based supercapacitor device with high performances and long cycling stability	ACS Applied Energy Materials	2018, 1 (12), p 6999–7006	6.024
16.	Kumar, M.; Chauhan, H.; Satpati, B.; Deka; Sasanka*	Yolk Type Asymmetric Ag–Cu ₂ O Hybrid Nanoparticles on Graphene Substrate as Efficient Electrode Material for Hybrid Supercapacitors	Zeitschrift für Physikalische Chemie	2018, 233 (1), 85-104.	1.356
17.	Das, S.; Mondal, P.; Ghosh, S.; Satpati, B.; Deka; Sasanka, Islam, S. M.; Bala. T	A facile synthesis strategy to couple porous nanocubes of CeO ₂ with Ag nanoparticles: an excellent catalyst with enhanced reactivity for the 'click reaction' and carboxylation of terminal alkynes	New J. Chem.	2018, 42, p 7314-7325	3.591
18.	Deka, B.; Bhattacharyya A.; Mukherjee, S.; Sarkar, T.; Soni, K.; Banerjee, S.; Saikia, K. K.; * Deka; Sasanka* Hussain, A*	Ferrocene conjugated copper (II) complexes of terpyridine and traditional Chinese medicine (TCM) anticancer ligands showing selective toxicity towards cancer cells	Applied Organometal lic Chemistry	2018, 32, e4287.	3.581
19.	Das, S.; Bhattacharjee, G.; Satpati, B.; Kumar, M.; Deka; Sasanka, Ghosalya, M. K.; Gopinath, C. S.; Bala, T	Deposition of Au nanoparticles inside porous CeO ₂ nanocubes using Langmuir–Blodgett technique	New Journal of Chemistry.	2018, 42: 1379-1386	3.591
20.	Chauhan, M.; Reddy, K. P.; Gopinath, C. S.; Deka; Sasanka*	Copper Cobalt Sulphide Nanosheets Realizing Promising Electrocatalytic Oxygen	ACS Catalysis.	2017, 7: 5871-5878	13.08

		Evolution Reaction				
21.	Chauhan, H.; Singh, M. K.; Kumar, P.; Hashmi, S A.; Deka; Sasanka*	Development of SnS ₂ /RGO nanosheets composite for cost-effective aqueous hybrid supercapacitors	Nanotechnology,	2017, 28: 025401	3.874	
22.	Das, T.; Chauhan, H.; Deka; Sasanka* , Chaudhary, S.; Boruah, R.; Saikia, B. K*	Promising carbon nanosheet-based supercapacitor electrode materials from low-grade coals”	Microporous and Mesoporous Materials	2017, 253: 80-90.	5.455	
23.	Deka, B.; Sarkar, T.; Banerjee, S.;* Kumar, A.; Mukherjee, S.; Deka; Sasanka* Saikia, K. K.;* Hussain* A	Novel mitochondria targeted copper(II) complexes of ferrocenyl terpyridine and anticancer active 8-hydroxyquinolines showing remarkable Q1 cytotoxicity, DNA and protein binding affinity	Dalton Transactions.	2017, 46: 396.	4.39	
24.	Kumar, M.; Soni, K.; Satpati, B.; Gopinath C. S.; Deka, Sasanka*	Exploration of magnetically separable Ag@Ag _x Ni _y core/graded-alloy-shell nanostructures	Chem. Commun.	2016, 52, p 8737-8740.	6.22	
25.	Chauhan, H.; Kumar, Y.; Dana, J.; Satpati, B.; Ghosh, H.N.; Deka, Sasanka*	Photoinduced ultrafast charge separation in colloidal 2-dimensional CdSe/CdS-Au hybrid nanoplatelets and corresponding application in photocatalysis.	Nanoscale	2016, 8, p 15802-15812	7.79	
26.	Kumar, M.; Soni, K.; Yadav, GD.; Singh, S.; Deka, Sasanka*	Surfactant directed Ag _{1-x} Ni _x alloy nanoparticle catalysed synthesis of aromatic azo derivatives from aromatic amines	Appl. Cat. A: General	2016, 525, p 50-58	5.706	
27.	Chauhan, H.; Soni, K.; Kumar, M.; Deka, Sasanka*	Tandem Photocatalysis of Graphene-Stacked SnS ₂ Nanodiscs and Nanosheets with Efficient Carrier Separation.	ACS Omega	2016, 1 (1), p 127-137.	3.512	
28.	Das, S.; Satpati, B.; Chauhan, H.; Deka, S.; Ghosal, M.K.; Gopinath, C. S.; T. Bala,	Seeding of Au on CdSe/CdS nanoplates using Langmuir-Blodgett technique.	RSC Adv.	2016, 6, p 14658-14665.	3.36	

29.	Kush, P.; Deori, K.; Kumar, A.; Deka, Sasanka*	Efficient Hydrogen/Oxygen Evolution and Photocatalytic Dye Degradation and Reduction of Aqueous Cr(VI) by Surfactant Free Hydrophilic Cu ₂ ZnSnS ₄	J. Mater. Chem. A	2015, 3, p 8098-8106	12.73
30.	Deori, K.; Kalita, C.; Deka, Sasanka*	(100) surface exposed CeO ₂ Nanocube as Efficient Heterogeneous Catalyst in Tandem Oxidation of Benzyl Alcohol, para-Chlorobenzyl Alcohol and Toluene to Corresponding Aldehydes Selectively	J. Mater. Chem. A	2015, 3, p 6909-6920	12.73
31.	Kush, P.; Deka, Sasanka*	Anisotropic kesterite Cu ₂ ZnSnSe ₄ colloidal nanoparticles: Photoelectrical and photocatalytic properties.	Mater. Chem. Phys.	2015, 162, p 608-616	4.094
32.	Chauhan, H.; Singh, M. K.; Hashmi, S. A.; Deka, Sasanka*	Synthesis of surfactant free SnS nanorods by solvothermal route with better electrochemical properties towards supercapacitor application	RSC Advances	2015, 5, p 17228-17235	3.36
33.	Das, S.; Satpati, B.; Chauhan, H.; Deka, Sasanka . Gopinath, C. S.; Bala, T.	Preferential growth of Au on CdSe quantum dots using Langmuir–Blodgett technique	RSC Advances	2014, 4, 64535-64541.	3.36
34.	Kumar, M.; Deka, Sasanka*	Multiply twinned AgNi alloy nanoparticles as highly active catalyst for multiple reduction and degradation reactions	ACS Appl. Mater. Interfaces	2014, 6, p 16071–16081	9.229
35.	Deori, K.; Gupta, D.; Saha, B.; Deka, Sasanka*	Design of 3-Dimensionally Self-assembled CeO ₂ Nanocube as a Breakthrough Catalyst for Efficient Alkylarene Oxidation in Water	ACS Catalysis	2014, 4, p 3169-3179	13.08
36.	Chauhan, H.; Kumar, Y.; Deka, Sasanka*	New synthesis of two-dimensional CdSe/CdS core@shell dot-in-hexagonal platelet nanoheterostructures with interesting optical properties	Nanoscale	2014, 6, p 10347-10354	7.79

37.	Kush, P.; Deka, Sasanka*	Photoelectrical properties of surfactant free kesterite $\text{Cu}_2\text{ZnSnSe}_4$ hydrophilic nanocrystal ink and the stability in polar solvents	J. of Nanoparticle Research	2014, 16:2600	2.253
38.	Deori, K.; Ujjain, S.K.; Sharma, R. K.; Deka, Sasanka*	Morphology Controlled Synthesis of Nanoporous Co_3O_4 Nanostructures and Their Charge Storage Characteristics in Supercapacitors	ACS Appl. Mater. Interfaces	2013, 5 (21), p 10665–10672	9.229
39.	Deori, K.; Deka, Sasanka*	Morphology oriented surfactant dependent CoO and reaction time dependent Co_3O_4 nanocrystals from single synthesis method and their optical and magnetic properties	CrysEngComm	2013, 15, p 8465-8474	3.545
40.	Kush, P.; Ujjain, S.K.; Mehra, N. C.; Jha, P.; Sharma, R. K.; Deka, Sasanka*	Development and Properties of Surfactant-Free Water-Dispersible $\text{Cu}_2\text{ZnSnS}_4$ Nanocrystals: A Material for Low-Cost Photovoltaics	ChemPhysChem	2013, 14, p 2793 – 2799	3.102
41.	Deori, K.; Gupta, D.; Saha, B.; Awasthi, S.K.; Deka, Sasanka*	Introducing Nanocrystalline CeO_2 as Heterogeneous Environmental Friendly Catalyst for the Aerobic Oxidation of Para-xylene to Terephthalic Acid in Water	J. Mater. Chem. A	2013, 1, p 7091-7099	12.73
42.	Kush, P.; Mehra, N.C.; Deka, Sasanka*	Synthesis, characterization and optical properties of novel hierarchical flower like pyrite FeS_2 particles for low cost photovoltaics.	Sci. Adv. Mater.	2013, 5(7) p 588-595.	1.474
43.	Vilvamani, N.; Deka, Sasanka ; Gupta, T.	Transition metal ion-induced anisotropic architectures using 4,4'-dicarboxy-2,2'-bipyridyl-silver nanopetals	Adv. Mater. Lett	2013, 4(4), p 252-260	1.15
44.	Shankar, S. S.; Deka, Sasanka*	Metal nanocrystals and their applications in biomedical systems	Sci. Adv. Mater.	2011, 3(2): p169-195.	1.474
45.	Krahne, R.; Morello, G.; Figuerola, A.; George, C.; Deka,	Physical properties of elongated inorganic nanoparticles	Physics Reports	2011, 501(3-5): p 75-221	25.6

	Sasanka; Manna, L.				
46.	Deka, Sasanka; Miszta, K.; Dorfs, D.; Genovese, A.; Bertoni, G.; Manna, L.	Octapod-shaped colloidal nanocrystals of cadmium chalcogenides via “one-pot” cation exchange and seeded growth	Nano Lett.	2010, 10 (9): p 3770– 3776.	11.19
47.	Deka, Sasanka; Genovese, A.; Zhang, Y.; Miszta, K.; Bertoni, G.; Krahne, R.; Giannini, C.; Manna, L.	Phosphine-Free Synthesis of p- Type Copper(I) Selenide Nanocrystals in Hot Coordinating Solvents	J. Am. Chem. Soc.	2010, 132 (26): p 8912-8914.	15.42
48.	Deka, Sasanka*; Falqui, A.; Bertoni, G.; Sangregorio, C.; Morello, G.; Giorgi, M De.; Giannini, C.; Cingolani, R.; Manna, L.; Cozzoli, P. D.	Fluorescent Asymmetrically Cobalt-Tipped CdSe@CdS Core@Shell Nanorod Heterostructures Exhibiting Room-Temperature Ferromagnetic Behaviour	J. Am. Chem. Soc.	2009, 131 (35), p 12817- 12828	15.42
49.	Quarta, A; Ragusa, A.; Deka, Sasanka; Tortiglione, C.; Tino, A.; Cingolani, R.; Pellegrino, T.	Bio-conjugation of rod-shaped fluorescent nanocrystals for efficient targeted cell labelling	Langmuir	2009, 25 (21), p 12614- 12622	3.882
50.	Deka, Sasanka*; Joy, P. A.	Single step synthesis and properties of M/MFe ₂ O ₄ and PVDF/M/MFe ₂ O ₄ (M = Co, Ni) magnetic nanocomposites	Sci. Adv. Mater.	2009, 1, p 262-268	1.474
51.	Deka, Sasanka; Quarta, A.; Lupo, M. G.; Falqui, A.; Boninelli, S.; Lanzani, G.; Morello, G.; Giorgi, M De.; Giannini, C.; Cingolani, R.; Pellegrino, T.; Manna, L.	CdSe/CdS/ZnS Double Shell Nanorods with High Photoluminescence Efficiency and Their Exploitation As Biolabelling Probes	J. Am. Chem. Soc.	2009, 131 (8), p 2948- 2958.	15.42
52.	Deka, Sasanka; Joy, P. A.	Superparamagnetic Nanocrystalline ZnFe ₂ O ₄ with a Very High Curie Temperature	J. Nanosci. Nanotech.	2008, 8, p 3955-3958	1.354

53.	Sreeja, V.; Vijayanand, S.; Deka, Sasanka ; Joy, P. A.	Magnetic and Mössbauer spectroscopic studies of NiZn ferrite nanoparticles synthesized by a combustion method	Hyperfine Interact	2008, 189, p 99-107	0.61
54.	Deka, Sasanka ; Joy, P. A.	Enhancement of the phase transformation temperature of γ -Fe ₂ O ₃ by Zn ²⁺ doping	J. Mater. Chem.	2007, 17, p 453-456	6.626
55.	Deka, Sasanka ; Joy, P. A.	Enhanced permeability and dielectric constant of NiZn ferrite synthesized in nanocrystalline form by a combustion method	J. Am. Cer. Soc.	2007, 90[5], p1494-1499	3.784
56.	Deka, Sasanka ; Joy, P. A.	Synthesis and magnetic properties of Mn doped ZnO nanowires	Solid State Commun.	2007, 142, p 190-194	1.804
57.	Deka, Sasanka ; Joy, P. A.	Ferromagnetism induced by hydrogen in polycrystalline nonmagnetic Zn _{0.95} Co _{0.05} O	Appl. Phys. Lett.	2006, 89, p 032508	3.791
58.	Deka, Sasanka ; Pasricha, R.; Joy, P. A.	Experimental comparison of the structural, magnetic, electronic, and optical properties of ferromagnetic and paramagnetic polycrystalline Zn _{1-x} Co _x O (x = 0, 0.05, 0.1).	Phys. Rev. B	2006, 74, p 033201	4.036
59.	Deka, Sasanka ; Joy, P. A.	Characterization of nanosized NiZn ferrite synthesized by an auto-combustion method	Mater. Chem. Phys.	2006, 100, p 98-101	4.094
60.	M. Rajendran, Sasanka Deka , P. A. Joy and A. K. Bhattacharya	Size-dependent magnetic properties of nanocrystalline yttrium iron garnet powders	J. Magn. & Magn. Mater.	2006, 301, p 212-219	2.993
61.	Deka, Sasanka ; Joy, P. A.	Direct observation of Ni metal impurities in lightly doped ferromagnetic polycrystalline (ZnNi)O	Chemistry of Materials	2005, 17, p 6507-6510	9.811
62.	Deka, Sasanka ; Joy, P. A.	Electronic structure and ferromagnetism of polycrystalline Zn _{1-x} Co _x O (0<x<0.15).	Solid State Commun.	2005, 134, p 665-669	1.804
63.	Deka, Sasanka ; Pasricha, R.; Joy, P. A.	Synthesis and ferromagnetic properties of lightly doped nanocrystalline Zn _{1-x} Co _x O.	Chemistry of Materials	2004, 16, p 1168-1169	9.811

64.	Deka, Sasanka; Joy, P. A.	Nanocrystalline Zinc ferrite with high magnetization at room temperature	MSI Bulletin	2004, 27, p 23-25	N/A
Research papers published in Refereed/Peer Reviewed Conferences					
<ol style="list-style-type: none"> 1. Sasanka Deka and P. A. Joy. 2008. Studies on ZnO based diluted magnetic semiconductors. In proceedings <i>TMS Annual Meeting 3</i>, March 9-13, 2008, New Orleans, USA, 373-378. Warrendale, USA: TMS. 2. Sasanka Deka, A. Falqui, C. Sangregorio, C. Giannini, R. Cingolani, L. Manna and P. Davide Cozzoli. Synthesis structural and magnetic properties of magnetic metal/semiconductor nanocrystals heterostructures. In proceedings <i>EMRS, Fall Meeting</i>, September 15-19, 2008, Warsaw, Poland, Warsaw: EMRS. 3. Sasanka Deka, S. K. Date and P. A. Joy. 2004. High magnetic aspects of nanosized NiZn ferrite powders synthesized by an auto combustion method. In proceedings <i>9th International Conference on Ferrites (ICF-9)</i>, August 23-27, 2004, San Francisco, USA, 149-154: Wiley-Blackwell. 4. Sasanka Deka, S. K. Date and P A Joy. 2004. Synthesis and magnetic properties of polycrystalline Co doped ZnO. In proceedings <i>9th International Conference on Ferrites (ICF-9)</i>, August 23-27, San Francisco, USA, 913-918: Wiley-Blackwell. 					
Patents/Books					
Patent					
<ol style="list-style-type: none"> 1. "A process for producing aromatic carboxylic acids by oxidation of methyl arenes" Indian Patent application No. 1346/DEL/2013 dated 7th May 2013, Saha, B.; Deka, S.; Gupta, D.; Deori, K. 2. "Octapod shaped nanocrystals and use thereof", U.S. Patent Application no. 13/196123. Case No: 4161-65. (02-08-2011) L. Manna, D. Dorfs, Miszta, K.; Deka, S.; Genovese, A. G. Bertoni, R. Brescia, S. Marras, Y. Zhang, R. Krahn, R. Cingolani. 					
Books/Monographs (Authored)					
<ol style="list-style-type: none"> 1. Krahn, R., Manna, L., Morello, G., Figuerola, A., George, C., Deka, S. 2013. Physical Properties of Nanorods. Springer publications, NanoScience and Technology series, ISBN 978-3-642-36430-3 2. Deka, S. 2011. Doped Transition Metal Oxide and Ferrite Nanocrystals. Lap Lambert Academic Publishing GmbH & Co. KG, Germany, ISBN 978-3-8443-2306-1. (sole author) 					
Book Chapter (Authored)					
<ol style="list-style-type: none"> 1. Chauhan, H., Deka, S. 2021. Supercapacitors based on two-dimensional transition metal dichalcogenides and their hybrids. Chapter in "Fundamentals and Supercapacitor Applications of 2D Materials" Ed. Chandra Sekhar Rout & Dattatray J. Late. Elsevier, Radarweg 29, PO Box 211, 1000 AE Amsterdam, Netherlands. ISBN: 978-0-12-821993-5 					
Awards and Distinctions					
<ol style="list-style-type: none"> a) Certificate of appreciation RSC Highly cited author as one of the top 5% most cited authors in Royal Society of Chemistry journals, UK, 2020 b) International Innovation & Research Excellence Award 2021, Center for Professional Advancement (CPACE), A Unit of IMRF with NITI Aayog, Vijaywada, AP. 					

- c) **IOP Publishing Top Cited Paper Award-2020** (India) as one of the most cited articles from India published across the entire IOP Publishing journal portfolio in the past three years (2017 to 2019). Institute of Physics (IOP) publishing, Bristol, BS1 6HG, UK.
- d) **VIFA-Chennai outstanding faculty (Chemistry) award 2019.**
- e) **Best speaker (oral)** in RSC workshop on Chemistry for tomorrow's world, December 2-3, 2015 at New Delhi by Royal Society of Chemistry, London.
- f) Honorary Member, American Chemical Society (2015-2018).
- g) **DAE-BRNS Young Scientist Award-2011** by Department of Atomic Energy, Board of Research in Nuclear Sciences, Govt. of INDIA.
- h) **Invited** as '**Young Scientist**' in 'National Seminar on Recent advances in synthesis and catalysis' (RASC-11) during 10-12th Feb 2011, Dibrugarh University, Dibrugarh, Assam.
- i) **TMS Foundation SHRI RAM ARORA AWARD**, The Minerals, Metals & Materials Society (TMS), Warrendale, PA 15086-7514, USA, 2008.
- j) Award of Junior/Senior Research Fellowship (**JRF/SRF-NET**) by UGC-CSIR, Govt. of India, New Delhi, 2002-2004-2007.
- k) **Best Poster Award**, National Science day poster presentation, NCL Research Foundation, National Chemical Laboratory, Pune, India, 2006.
- l) Award of **National Level merit Scholarship** by AICTE, Govt. of India, 1993-1995.

Invited talk/plenary talk/Resource person

1. Resource person "Recent Advances in Material Science for Sustainable Development in Energy Applications" 16-28 February, 2022. celebration of **National Science Day**, Department of Chemistry, Indira Gandhi University, Meerpur Rewari in collaboration with Department of Physics, Kurukshetra University, Kurukshetra, Under the liaison of **Azadi ka Amrit Mahotsav**.
2. Invited talk: Advanced Nanomaterials for Water Splitting Reaction, International Conference on Emerging Trends in Nanomaterials Science & Technology (ICETNMST – 2022), 29-01-2022, Department of Science and Humanities, **NIT Nagaland**, Nagaland, India.
3. Resource person: Nanomaterials and their use in Electrochemical water splitting- Hydrogen/oxygen evolution FDP, 19th Refresher Course in Physical Sciences & Nano Sciences, 19-01-2022, **UGC-HRDC, JNU New Delhi**.
4. Invited talk : Nanostructured mixed metal oxides and layered double hydroxides and their charge storage characteristics 14th National Conference on Solid State Ionics (NCSSI-14), 16-18th December, 2021, **Department of Physics and Astrophysics, University of Delhi**, Delhi
5. Resource person: "Designing of electrodes for supercapacitor application, their study using electrochemistry from basic to calculation/data analysis." Online Short Term Certificate Course on Electrochemistry from Basics to Applications, electrochemkuk Module 2, 11th July 2021, **Kurukshetra University**, Kurukshetra.
6. Resource person: "Electrochemical water splitting- Hydrogen/oxygen generation" Online Short Term Certificate Course on Electrochemistry from Basics to Applications, electrochemkuk2021, 21st June -

- 25th June, 2021 **Kurukshetra University**, Kurukshetra.
7. Invited talk: "Usefulness of nanostructured materials in energy conversion and storage" "Nano Era" Nanotechnology for Global, 7-11th June, 2021, Amity Institute of Nanotechnology, **Amity University**, Uttar Pradesh.
 8. Invited talk: 'Nanomaterials: Synthesis diverseness', Indo US Webinar and Lecture Series, MHRD SPARC, **Jamia Millia Islamia**, June 1-9, 2021.
 9. Invited talk: "Electrochemistry: Electrodes And Electrochemical Cells" at Three weeks Lecture Series(Virtual) On Chemistry Education, organized by Department of Chemical Sciences, **Tezpur University**, Tezpur, Assam, India during 28th January to 18th February 2021.
 10. Invited talk: "Usefulness of nanostructured catalyst materials in water splitting reaction" at ChemCatCon 1.0 - Reactions on Surface" (online) hosted by **IIT Gandhinagar**. 11th and 12th July 2020.
 11. Invited talk: "*Basics of Nanoscience and its applications*" at 'An online workshop cum Guest lecture series on Chemistry Education for undergraduates' (online) organized by **Sibsagar College, Dibrugarh University**, Assam. 18th December, 2020.
 12. Invited talk: "Use of Nanostructured Materials for Sustainable Energy" (online) at National Seminar "Science for Sustainable Development" organized by **B. Borooah College, Gauhati University**, Guwahati. September 25-26, 2020.
 13. Invited talk: "Nanostructured metal oxide and chalcogenide materials for energy conversion and energy storage applications" International Conference on Engineering Sciences & Technologies for Environmental Care (ESTEC-2020), organized by **CSIR-North East Institute of Science & Technology (NEIST), Jorhat**, Assam, India during February 20-22, 2020.
 14. Invited talk/Resource person: "Nanomaterial synthesis: Challenges and safety concerns Environment and Nanosafety in DRDO Laboratories" 18th February, 2020. **The Centre for Fire, Explosive and Environment Safety (CFEES), DRDO**, Delhi.
 15. Invited talk / Special lecture series on Analytical Techniques: "Nanochemistry and useful instrumentation Transmission and scanning Electron Microscopy" D/o Chemical Sciences, **Tezpur University**, Tezpur, 20th January: 2020.
 16. Invited talk: "Nanostructured Functional Materials for Energy Conversion and Energy Storage Applications". National Conference on Advance Functional Materials-2019 NCAFM, November 20-21, **Jamia Millia Islamia**, New Delhi
 17. Invited talk/Resource person: Basics of Nanochemistry and its application in Energy sectors. UGC-Human Resource Development Centre, 8th November. **Jamia Millia Islamia**, 7Th 2 Week Refresher Course in Basic Sciences (Interdisciplinary Sciences). 5th November to 19th November 2019
 18. Invited talk: Introduction to Nanoscience. **Miranda House College**, Delhi University. 21st October, 2019
 19. Resource person: NCERT 'Customised Training of Teachers Teaching at Secondary and Secondary Specialised High Schools of Uzbekistan on STEAM and IFP'. Teaching Chemistry at Secondary and Higher Secondary Stages and Practicals in Chemistry. September 27, 2019. **IRD, NCERT**, New Delhi.
 20. Invited talk: "Energy conversion and energy storage applications: Usefulness of nanostructured materials" at National Conference on Green, Sustainable and Evolving Sciences (GSES-2019) & 64th

Annual Technical Session of Assam Science Society June 28-29, 2019; **Cotton University, Guwahati, Assam.**

21. Invited talk: "Development of 2D nanostructured materials for catalysis and energy storage applications" at Frontiers in 2D materials from Basic Science to Real time Applications, 13th - 16th March 2019, **Jain University, Bengaluru.**
22. Invited talk: "Development of nanostructured metal chalcogenide and oxide particles for catalysis and energy storage applications" in Half-a-day meeting/symposium at the Department of Chemistry, **BITS Pilani, Pilani Campus**, Rajasthan, on 9th March, 2019.
23. Invited talk: "Development of nanostructured metal chalcogenide particles for electrochemical energy conversion and metal oxide particles for electrochemical energy storage applications" at Indo-UK Newton-Bhabha Workshop on Electrochemical Routes to Energy Storage, Energy Conversion and Fuel Production" December 10-13th, 2018 at **JNCASR**, Bangalore, India.
24. Invited talk: "Inorganic Nanomaterials for Catalysis, Energy Conversion and Storage: A Brief selected overview from the PI's Lab" Leibniz University Hannover (LUH), Germany-India workshop on strategic partnership, 3rd–6th December 2018 at **Leibniz University Hannover**, Hanover, Germany.
25. Invited talk: "Introduction to Nanoscience" at **Miranda House college**, University of Delhi, 31st October, 2018.
26. Invited talk: "Copper Cobalt Sulphide Nanosheets Realizing Promising Electrocatalytic Oxygen Evolution Reaction" at One-day discussion meeting on Chemistry of Nanomaterials, Jawaharlal Nehru Centre for Advanced Scientific Research (**JNCASR**), Bangalore, on 17th July, 2018.
27. Invited talk: "Nanostructured inorganic materials and their applications" TEQIP-III sponsored Faculty Development program "Polymer Analysis and Applications: Current Scenario, 4-8 June, 2018, Department of applied Chemistry, Delhi Technical University, Delhi-42
28. Invited talk: "Development of transition metal based alloy and chalcogenide nanoparticles and their emerging applications" at March Meeting, 16-17 March, 2018. School of Physical Sciences, **Jawaharlal Nehru University**, New Delhi-110067, India.
29. Invited talk: "Ag_{1-x}Ni_x alloy nanoparticles and CuCo₂S₄ nanosheets and their useful catalytic Applications" at International Conference on Nanobiotechnology, February 5-6, 2018, Centre for Interdisciplinary Research in Basic Sciences, **Jamia Millia Islamia**, Jamia Nagar, New Delhi 110025.
30. Plenary talk: "Metal alloy and chalcogenide nanoparticles for few useful catalytic applications", at International Conference on Nano- and Functional Materials: Interface between Science and Engineering (NFM-2017), 16-18 November 2017, **BITS-Pilani**, Pilani Campus, Rajasthan.
31. Invited talk: "Nanoscience and Nanotechnology" Department of Chemistry, **Miranda House**, DU, November 6, 2018.
32. Memorial lecture: Dr. C.K. Khurana Memorial lecture for Rasgandhayan, **Gargi College**, DU, September 6 2017.

33. Invited talk: "Exploration of multiply twinned AgNi alloy nanoparticles as highly active catalyst for multiple transformation reactions" at International Conference on Catalysis and Chemical Engineering" (CCE-2017), February 22-24, 2017 **Baltimore, USA**. Organized by the: United Scientific Group, 2088 B2 Walsh Avenue Santa Clara, CA 95050, USA.
34. Invited talk: "Exploration of unique two dimensional CdSe/CdS core@shell hexagonal nanoheteroplateles and CdSe/CdS-Au hybrid nanocrystals" at The International Conference of Young Researchers on Advanced Materials (IUMRS-ICYRAM 2016) 11-15, December 2016, **IISc-Bangalore, INDIA**. (14-12-2016).
35. Invited talk: "Exploration of Ag_xNi_y alloy and Ag@Ag_xNi_y core/graded-alloy-shell nanostructures in catalytic applications" at International Conference on Technologically Advanced Materials and Asian Meeting on Ferroelectricity, ICTAM-AMF10, November 7-11, 2016. **University of Delhi**. (9-11-2016)
36. Invited talk: "Inorganic Nanoparticles: Synthesis, Characterization and Multifunctional applications" at the FUB-DU Joint Research Workshop on Supramolecular Chemistry and Nanoscale Systems, **Freie Universität Berlin**, Berlin, Germany. June 8-10, 2016
37. Invited talk: :(emphasis on academics and research for undergraduate students) "NanoScience: Big Word of small Things" **Kirori Mal College** (KMC), University of Delhi, January 23, 2016.
38. Invited talk: "Multifunctional applications of few nanostructured inorganic materials" International Conference on Advanced materials-- Energy, Environment and Health (ICAM- 2016) March 04-07, 2016, Department of Chemistry, **Indian Institute of Technology-Roorkee** (IIT-Roorkee).
39. Invited talk: "Development of CeO₂ nanocube and Cu₂ZnSnS₄ nanoparticles for multifunctional applications" International Conference on Materials Science & Technology (ICMTECH)-2016, Conference Centre, **University of Delhi**, India, 01st - 04th March, 2016 (by IAAM, VBRI press and DU)
40. Invited talk: "Synthesis, characterization of multifunctional applications of inorganic nanomaterials" **Leibniz Universität Hannover**, Hannover, Germany. December 10, 2015.
41. Resource person: "Application of Nanotechnology in Environmental Remediation", 18th June 2015, Refresher course in Disaster Management & Environmental Studies ID (I), UGC-Human Resource Development Centre, **Gauhati University**, Guwahati-14.
42. Invited talk: "Morphology oriented nanocrystals for catalytic and energy applications" at 2nd Indo-German Workshop on Supramolecular Chemistry, March 30th, 2015, **University of Delhi**.
43. Plenary Talk: "Multifunctional Inorganic Nanocrystals: Synthesis, characterization and applications" Seminar on nanochemistry, **Sam Higginbottom Institute of Agriculture, technology and sciences**, Allahabad, UP. 11-12 Nov, 2014.
44. Invited talk: "Synthesis, characterization and applications of multifunctional inorganic nanoparticles" NanoSci-2014, **DST- Institute of Advanced Study in Science and Technology** (IASST), Guwahati, Assam. 20-21 December 2014.
45. Invited talk "Nanomaterials as highly active catalyst for multiple significant reactions" at **Italian**

Institute of Technology, Genova, Italy on 21-29 June, 2014.

46. Invited talk: 1st International Conference on Emerging Trends of Nanotechnology in Drug Discovery, 26-27 May 2014, Sri Venkateswara College, University of Delhi and Department of Biochemistry, **University of Delhi South Campus**.
47. Resource person: "Nanomaterials by solution based chemical synthesis procedures," 20th May 2014, Refresher course in Basic Sciences (Interdisciplinary), UGC-Academic Staff College, **Jamia Millia Islamia**, New Delhi.
48. Invited talk: Science Academies Lecture-Workshop Nanotechnology and its application, 18-20 January 2013 in MMME college, Gorakhpur, U.P. Organized by **NASI Allahabad, INSA Delhi, IAS Bangalore**.
49. Invited talk: Indo-German workshop on "New Perspectives for Nano-carriers in Biomedical Applications" 14th January 2013, Department of Chemistry, **University of Delhi**.
50. Invited expert talk: Vigyan Prasar EduSAT network, DST, Govt. of India on "Nano Technology an Introduction" on 24th January 2013 during 10.30 AM to 1.00 PM at C-24 Qutub Institutional Area New Delhi-110016, for the students of class XI and XII.
51. Invited talk: Career and Higher Education, 4th June 2012, Seminar: Career Prospect in Higher Education, Career guidance cell, **Pub-Kamrup College**, Baihata Chariali, Kamrup, Assam.
52. Resource person: NanoScience and its applications in Biotechnology, 5th May 2012, Refresher course in Basic Sciences (Interdisciplinary), UGC-Academic Staff College, **Jamia Millia Islamia**, New Delhi.
53. Invited talk: Nanoscience and Nanotoxicology, 22nd February 2012, **Solid State Physics Laboratory (SSPL)-DRDO, Delhi**.
54. Resource person: NanoScience and its applications in Biotechnology, 16th June & 19th June 2011, Refresher course in Basic Sciences (Interdisciplinary), UGC-Academic Staff College, **Jamia Millia Islamia**, New Delhi.
55. Invited talk: "Multifunctional Hybrid Nanocrystals: Synthesis, Characterization and Applications" at National Seminar on Recent advances in synthesis and catalysis (RASC-11) during 10-12th Feb 2011, **Dibrugarh University, Dibrugarh**, Assam. (10th Feb)
56. Special talk: NanoScience: Big Word of small Things, 10th September 2010, Department of Chemistry, **University of Delhi**, Delhi.
57. Invited talk: Nanochemistry: Basic Understanding and Applications, 28th June 2010, **B. Borooh College**, Guwahati.

Conference Presentations as Paper/Oral/Poster

1. Deka, S, 2015. Synthesis, characterization and applications of CeO₂ nanocube and Cu₂ZnSnS₄ nanoparticles in green chemistry, *RSC workshop on Chemistry for tomorrow's world*, December 2-3, 2015 at New Delhi by Royal Society of Chemistry, London.
2. Deka, S. 2014. Nanoporous CoO and Co₃O₄ Nanostructures and Their Charge Storage Characteristics

in Supercapacitors. Paper presented at 2014 MRS Spring Meeting, April 21-25, Moscone West Convention Center, San Francisco California, USA.

3. Deka, S. 2014. Development, characterization and studies of metal chalcogenide ($\text{Cu}_2\text{ZnSnS}_4$) and metal oxide (Co_3O_4) nanomaterials for energy applications. Paper presented at *6th International Conference On Nano Science And Technology (ICONSAT-2014)*, March 2-5, 2014, INST, Mohali, Chandigarh.
4. Deka, S. 2013. Nanocrystalline CeO_2 as Heterogeneous Environmental Friendly Catalyst for the Aerobic Oxidation of Para-xylene to Terephthalic Acid in Water. Paper presented at *3rd International Conference on Advanced Nanomaterials and Nanotechnology (ICANN-2013)*, Dec 1-3, 2013, IIT-Guwahati.
5. Deka, S. 2012. Environment friendly hierarchical flower like pyrite FeS_2 ink for low cost photovoltaics. Paper presented at the *INDO-GERMAN Workshop on Advanced Materials for Future Energy Requirements*, November 29-30, 2012, Conference Centre, University of Delhi, Delhi.
6. Deka, S. 2012. Synthesis and characterization of two phases of cobalt oxide nano- and micro-particles and their applications. Paper presented at the *International Conference and Workshop On Nanostructured Ceramics and other Nanomaterials (ICWNCN) 2012*, March 13-16, 2012, Conference Centre, University of Delhi, Delhi.
7. Deka, S. 2011. Synthesis of Hierarchical Pyrite FeS_2 flower like particles for low cost photovoltaics. Paper presented at the *2nd Indo-Italian Workshop on Electrochemistry for Future Energy Solutions IIWEc 2011*, Nov. 30th-Dec 3rd, 2011, Department of Chemistry, University of Delhi, Delhi.
8. Deka, S. 2011. Multifunctional Hybrid Nanocrystals: Synthesis, Characterization and Applications. Paper presented at the *INDO-US Meeting on New Functional Materials: Synthesis, Properties and Methods (IUSSTF)*, June 2-7, 2011, Hotel Manu Allaya, Manali, Himachal Pradesh.
9. Deka, S. 2011. Multifunctional Hybrid Nanocrystals: Synthesis, Characterization and Applications. Paper presented at the *National Seminar on Recent Advances on Synthesis and Catalysis 2011 (RASC-11)*, February 10-12, 2011, Dibrugarh University, Dibrugarh, India
10. Deka, S. 2010. Synthesis of cuboctahedron shaped Cu_{2-x}Se nanocrystals and transforming them to Cadmium Chalcogenide multipods via quantitative cation exchange reaction. Paper presented at the *International Interdisciplinary Science Conference-2010*, December 2-4, 2010, Jamia Millia Islamia, New Delhi, India
11. Deka, S. 2008. Synthesis, structural and magnetic properties of magnetic metal/semiconductor nanocrystals heterostructures. Paper presented at the *E-MRS 2008 Fall Meeting*, September 15-19, 2008, Warsaw, Poland.
12. Deka, S. 2008. CdSe/CdS/ZnS core-shell-shell nanorods with high quantum efficiency. Paper presented at the *2nd International Conference on Advanced Nanomaterials (ANM 2008)* June 22-25, 2008, Aveiro, Portugal.
13. Deka, S. 2008. Bifunctional magnetic metal/ semiconductor nanocrystal heterostructures. Paper

presented at the NANAX3, May 21-23, 2008, Lecce, Italy.

Extramural (National/International) research projects undertaken

1. "Development of nanostructured mixed metal oxide and metal chalcogenide materials based effective electrodes and their use in supercapacitor devices" *funded by TMD-DST (Department of Science and Technology, India), 2019-2022.*
2. "Development of advanced nanomaterials for benchmark electrocatalytic hydrogen and oxygen evolution from water" *funded by SERB-DST (Science and Engineering Research Board), 2017-2020.*
3. "Synthesis, characterization and advanced multifunctional applications of novel chalcogenide semiconductor nanocrystals" *funded by CSIR (Council of Scientific and Industrial Research), New Delhi, 2014-2018.*
4. "Synthesis, characterization and evaluation of anticancer activity of novel bioessential transition metal complexes having tumor targeting and antitumor active ligands" *funded by DBT (Department of Biotechnology), 2014-2018.*
5. "Synthesis, characterization, porous assembly and application of novel metal-metal oxide hybrid nanocrystals" *funded by SERB-DST, 2012-2025.*
6. "Studies on the optical and magnetic properties of semiconductor-magnetic oxide hybrid nanocrystals" *funded by BRNS-BARC-DAE (department of Atomic Energy), 2012-2015.*
7. "Synthesis and studies of the optical, plasmonic and magnetic behavior of Ni/Ag-semiconductor hybrid nanostructures" *funded by DST-DAAD (German Academic Exchange Service, Indo German), 2014-2016.*
8. "Complex nanostructures and their applications in optics, photonics and electronics" *funded by DST Purse grant, 2011, 2015, 2016.*
9. *University of Delhi Institute of Excellence (IoE) minor project 2021 and 2022.*

Subjects Taught at University of Delhi

M.Tech. (Nanoscience and Nanotechnology)

NSNT-103: Photochemistry, Surface phenomena and catalysis, Phase transformation

NSNT-204: Synthesis and Characterization of Nano Materials, Physical methods, Chemical methods.

NSNT-301: Material Science

NSNT-402: Properties of Nanomaterials

NSNT-205: Chemistry Practical

M. Sc. Chemistry Final (Theory Course A, paper 301)

Inorganic Reaction Mechanisms; Molecular rearrangement processes

M. Sc. Chemistry Final (Practical course)

Instrumental techniques in Inorganic chemistry, Projects

M. Sc. Chemistry Previous: Inorganic chemistry paper 201 course B: Chemistry of 'd' & 'f' block elements

M. Sc. Chemistry Previous: Practical: Inorganic chemistry

Ph.D. Course work (Unit 23): Inorganic reaction mechanisms

Ph.D. Course work: Nanochemistry

Ph.D. Course work: Research Methodology

Research Guidance

Ph.D. degree awarded: 05

Students: (i) Dr. Priya Kush (UGC-JRF), (ii) Dr. Kalyanjyoti Deori (UGC-JRF), (iii) Dr. Himani Chauhan (UGC-JRF), (iv) Dr. Mukesh Kumar (CSIR-JRF), (v) Dr. Meenakshi Chauhan (CSIR-JRF).

Ph.D. thesis submitted: 01 (Mr. Lakshya Kumar, UGC-JRF)

Supervision of Doctoral Thesis, under progress: 04

Students: (i) Ms. Amat-Alrahman Ahmed Yehya Othman, Yemeni student, international fellowship; (ii) Ms. Bindu Antil, CSIR-JRF; (iii) Mr. Ankur Dhiman, CSIR-JRF; (iv) Md. Javed, CSIR-JRF, (v) Mr. Abhinav Yadav, CSIR-JRF.

Postdoctoral researcher/Research associate: 02

Dr. Kiran Soni, CSIR-RA (completed), Dr. Dharmendra Yadav, DSK fellow

Project JRF: 03

Supervision of M.Tech/M.Sc. dissertation (6 months): 18

(students from Amity Institute of Nanotechnology, UP; University of Delhi; Amity University Haryana; NIT Rourkela; Cotton College, Guwahati; GUIST, Gauhati University, Guwahati; Central University of Haryana)(summer/winter project/dissertation: students from IISER-Kolkata, IISER-Bhopal and Delhi University colleges).

Association With Professional Bodies

Memberships

Life member: Chemical Research Society of India (CRSI). LM 1917

Life member: Materials Research Society of India (MRSI). LMB2254

Honorary Member, American Chemical Society (2015-2018).

Life Member: Electron Microscope Society of India. LM 893

Administrative Assignments

- External member of the Board of Studies of the Faculty of Physical, Chemical & Mathematics Sciences of the Cotton University, Panbazar, Guwahati-781001, Assam.
- External member of the Board of Studies for M.Sc. (applied chemistry) of the MIT- ADT University, Pune, Rajbaug, Loni Kalbhor, Pune - 412 201, India. (2021-2022).
- Executive council member, Electron Microscope Society of India (2020-2022)
- Committee Members of Formulation of Courses under UGCF 2022, UGC-NEP, University of Delhi.
- Council member, committee of Courses for Post-Graduate Including Honors and Under- Graduate studies Chemistry, University of Delhi. (2021-2023)
- Member of the Department Bill Committee (2021-2022)
- Departmental NAAC committee and compiling data (2021-2022)
- Member of Delhi University QS ranking committee, University of Delhi.
- Member of the Advisory committee of the University Science Instrumentation Centre (USIC), University of Delhi (2021-2022)
- Member of the Special Task Force for Global Ranking, University of Delhi.
- Member of the core advisory committee for Alumni affairs office (AAO), University of Delhi.
- Superintendent of Examination-NSNT;
- Member Seminar Committee Chemistry;
- Member departmental and USIC instrument committee;
- Convener of NSNT conference;
- Deputy convener centralized evaluation Centre (2013)
- Departmental Nodal officer for North-East Students.
- Convener Inorganic section.
- Member of UGC-SAP II for department (2017-2020).
- Member of departmental Anti Ragging Committee (2017-2020).

Other contributions

Review Editor on the Editorial Board of Frontiers in Nanotechnology.
 Review Editor on the Editorial Board of Frontiers in Chemistry.
 Review Editor on the Editorial Board of Frontiers in Energy Research.

I declare that the above particulars are correct to the best of my knowledge.

Place: Delhi

Date: 06-05-2022

(Sasanka Deka)