

Publication List

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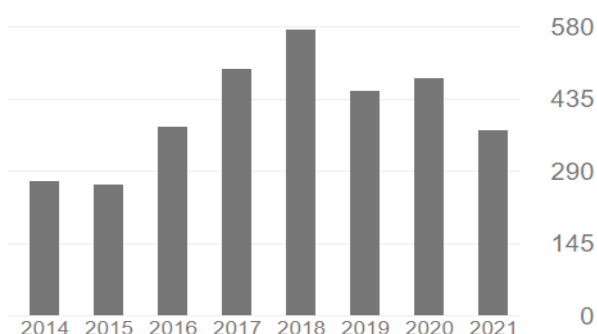


Date of Birth: 17/06/1984; **Language Proficiency:** English, Hindi, German (learning stage)

Summary of Publications

1. **Patents:** Intellectual property, technological innovations, new products etc. : **09**
2. **Books/Book Chapters/Monographs** published : **21**
3. **Publications in International Journals/Proceedings** : **113**
4. **Citation till August 2021 (Google Scholar)**

Cited by	VIEW ALL	
	All	Since 2016
Citations	3834	2747
h-index	34	30
i10-index	97	83

**5. Quality of Research Publication (According to Web of Science)**

Q1 Journals: 55, Q2 Journals: 15, Q3 Journals: 09, Q4 Journals/others: 14/20

No. of Q1 publications as First Author: 14

No. of Q2 publications as First Author: 01

No. of Q1 publications as Corresponding Author: 23

No. of Q2 publications as Corresponding Author: 07

Patents Applied / Under Consideration

S.N.	BibID / Ref. / Title / Authors / (Year wise sorted)/ Special note, if any
1.	RSREP2016 Patent Application No.: 20163110351117 Triple signaling mode carbon dots-based biodegradable molecularly imprinted polymer as multi-tasking visual sensor for rapid and “on-site” monitoring of silver ion Rashmi Madhuri, Santanu Patra, Raksha Choudhary, Ekta Roy, Prashant K. Sharma
2.	PA2010 Patent Number: 608/DEL/2010 Developement of Zinc Oxy-Sulphide Ternary Nanocrystal: A new hope for tunable white light LED nanophosphors Prashant K Sharma and Avinash C Pandey,
3.	PA2010 Patent Number: 607/DEL/2010 Performance Enhancement of Large Area Solar Cells by Incorporating Nanocrystals Prashant K Sharma and Avinash C Pandey,
4.	PRA2010 Patent Number: 610/DEL/2010 A Novel Up-scalable Solution Combustion Synthesis of Bright Blue Luminescent BAM:Eu²⁺ Nanophosphors for PDP Applications Prashant K Sharma, Ranu K Dutta and Avinash C Pandey.
5.	PRA2010 Patent Number: /DEL/2010 Combustion Synthesis and Fluorescent Properties of Eu³⁺ and Tb³⁺ Doped YBO₃ Nanorods under VUV excitations Prashant K Sharma, Ranu K Dutta and Avinash C Pandey,
6.	PRA2010 Patent Number: 609/DEL/2010 Reverse Micelles Synthesis of Quantum Confined Rare-Earth Ortho-botare Nanocrystals for High-Definition Display Devices Prashant K Sharma, Ranu K Dutta and Avinash C Pandey,
7.	PRA2010 Patent Number: /DEL/2010 Enhanced Luminescence Characteristics of YBO₃:Eu³⁺ Nanophosphors co-doped with Gd³⁺ under VUV and UV excitation Prashant K Sharma, Ranu K Dutta and Avinash C Pandey,
8.	PRA2010 Patent Number: 1077/DEL/2010 Vitamin Encapsulated Magnetofluores as Target Specific MRI Contrast Agents Ranu K Dutta, Prashant K Sharma and Avinash C Pandey,
9.	RPA2009 Patent Number: 1072/DEL/2009 Luminescent Magnetic Quantum Dots (LMQDTs): Synthesis Method and corresponding functional properties Ranu K Dutta, Prashant K Sharma and Avinash C Pandey.

Full List of Publications

A. Books

S.N.	BibID / Ref. / Title / Authors / (Year wise sorted)/ Special note, if any
1.	“Study of Nanomaterials for Opto-electronics and DMS Based Applications” Prashant K. Sharma and Avinash C. Pandey, LAP Lambert Academic Publishing, 244 Pages, 2012. ISBN 978-3-8473-7963-8

B. Book Chapters

S.N.	BibID / Ref. / Title / Authors / (Year wise sorted)/ Special note, if any
2.	“Quality control of beverages for health safety: Starting from laboratory to the point-of-care detection techniques”, Santanu Patra, Raksha Choudhary, Rashmi Madhuri, Prashant K. Sharma, Book: Quality Control in the Beverage Industry (Volume 17: The Science of Beverages), 2019, Chapter 2, page no. 1-45, Publisher: Elsevier.
3.	“Stimuli-responsive polymers for treatment of Diabetes Mellitus, Book: Stimuli Responsive Polymeric Nanocarriers for Drug Delivery Applications” Santanu Patra, Rashmi Madhuri and Prashant K. Sharma, 2019, Chapter 18, page no 491-518, Publisher: Elsevier.
4.	“Materials Characterization using Scanning Tunneling Microscopy: From Fundamentals to Advanced Applications” Suryakanti Debata, Trupti R. Das, Rashmi Madhuri, Prashant K. Sharma Handbook of Materials Characterization, 2018, pp 217-261, DOI: 10.1007/978-3-319-92955-2_6. Publisher: Springer
5.	“Graphene-Based Multifunctional Magnetic Nanocomposites and Their Multimode Biomedical Applications” in the book titled Complex Magnetic Nanostructures, Editor: Surender K. Sharma, TR Das, S Debata, R Madhuri, Prashant K. Sharma, Chapter No. 10, Page numbers: 359-392, Publication date: 2018, Publisher: Springer, ISBN 978-3-319-52086-5 (eBook)
6.	“Graphene-Based Portable, Flexible, and Wearable Sensing Platforms: An Emerging Trend for Health Care and Biomedical Surveillance”, Santanu Patra, Raksha Choudhary, Rashmi Madhuri, Prashant K. Sharma, Chapter 13: Book: Graphene Bioelectronics, 2018, Pages 307-338. DOI:10.1016/B978-0-12-813349-1.00013-5, Publisher: Elsevier.
7.	“Functionalization of Carbon Nanostructures, Book: Reference Module in Materials Science and Materials Engineering” Paramita Karfa, Shrabani De, Kartick C. Majhi, Rashmi Madhuri, Prashant K. Sharma 2018, DOI: 10.1016/B978-0-12-803581-8.11225-1. Publisher: Elsevier.
8.	“Role of Nanomaterials as an Emerging Trend Towards the Detection of Winged

- Contaminants” in the book entitled, “Nanotechnology in Oil and Gas Industries”
S Patra, R Madhuri, **Prashant K. Sharma**
Chapter No. 9, 245-289, **2018 Publisher: Springer**,
https://doi.org/10.1007/978-3-319-60630-9_9
Print ISBN978-3-319-60629-3; Online ISBN978-3-319-60630-9
9. “Role of Magnetic Nanoparticles in Providing Safe and Clean Water to Each Individual” in the book titled: Complex Magnetic Nanostructures, Editor: Surender K. Sharma, E Roy, S Patra, P Karfa, R Madhuri, **Prashant K. Sharma**,
Chapter No. 8, Page numbers: 281-316, Publication date: **2017, Publisher: Springer**,
ISBN 978-3-319-52087-2 (eBook).
10. “A genuine combination of solvent-free sample preparation technique and molecularly imprinted nanomaterials”, in the book titled: Advanced Molecular Imprinting Materials, Editors: Ashutosh Tiwari, Lokman Uzun, Santanu Patra, Ekta Roy, Rashmi Madhuri, **Prashant K. Sharma**,
Chapter number: 02, Page numbers: 29-88, Publication date: **2016**,
Publisher: **WILEY-Scrivener Publishing, USA**,
ISBN: 978-1-119-33629-7.
11. “Imprinted carbonaceous nanomaterials: A tiny looking big thing in the field of selective and specific analysis”, in the book titled: Advanced Molecular Imprinting Materials, Editors: Ashutosh Tiwari, Lokman Uzun, Ekta Roy, Santanu Patra, Rashmi Madhuri, **Prashant K. Sharma**,
Chapter number: 05, Page numbers: 165-216, Publication date: **2016**
Publisher: **WILEY-Scrivener Publishing, USA**,
ISBN: 978-1-119-33629-7
12. “A technique comes to life for security of life: The food contaminant sensors”, in the book titled: NanoBioSensors, Editor: Alexandru Mihai Grumezescu, Santanu Patra, Ekta Roy, Rashmi Madhuri, **Prashant K. Sharma**,
Chapter number: 17, Volume: 08, Page numbers: 773-772, Book Publication date: **2016**,
Publisher: **Elsevier**,
ISBN: 978-0-12-804301-1
13. “Combination of Molecular Imprinting and Nanotechnology: Beginning of a New Horizon” in “Advanced Materials” book series.
Rashmi Madhuri, Ekta Roy, Kritika Gupta and **Prashant K. Sharma**
WILEY-Scrivener Publisher, 2013/14
14. “Functionalized Biocompatible Nanoparticles for Site Specific Imaging and Therapeutics” in book entitled “Advances in Polymer Science: Polymers in Nanomedicine”
Ranu K Dutta, **Prashant K Sharma**, Hisatoshi Kobayashi and Avinash C Pandey,
Springer-Verlag Berlin Heidelberg 1-43, DOI: 10.1007/12(2011)155, **2012**,
ISBN 978-3-642-27855-6

15. "High Resolution Transmission Electron Microscopic Investigations of Nanocrystals Growth and Defect Formation",
in book entitled 'Current microscopy contributions to advances in science and technology (Microscopy Book Series, number #5)',
Prashant K. Sharma and Avinash C Pandey,
Formatex Publications, Spain **2012**.
16. "Multifunctional core-shell luminescent magnetic nanocrystals for targeted imaging and therapy",
in book entitled "Nanobiomaterials for Intelligent Medical Devices",
Prashant K. Sharma and Avinash C Pandey,
WILEY-Scrivener Publishing LLC, USA, Chapter 16, (**2012**).
17. "Advancement in Semiconducting Nanomaterials Based Solar Cell Applications",
In book entitled 'Nanomaterials and Nanotechnology'
Prashant K. Sharma and Avinash C Pandey,
VBRI Press, India, **2012**. **ISBN 978-81-920068-33**
18. "II-VI Semiconductor Nanocrystals for Energy Securing 'Green' Technology and Solid State Lighting",
in book entitled "Intelligent Nanomaterials",
Prashant K. Sharma and Avinash C. Pandey,
Scrivener Publishing LLC, USA, Chapter 7, (**2011**).
19. "Rare-Earth Based Insulating Nanocrystals: Improved Luminescent Nanophosphors for Plasma Display Panels",
in book entitled "Intelligent Nanomaterials",
Prashant K. Sharma and Avinash C. Pandey,
Scrivener Publishing LLC, USA, Chapter 3, (**2011**),
20. "Potential Advancement of the Nanomedicines in Cancer Theragnosis",
in book entitled "Recent Advances in Nanomedicine",
Prashant K Sharma, Ranu K Dutta and Avinash C Pandey,
VBRI Press, India, Chapter 8, (**2011**). **ISBN 978-81-920068-03**
21. "Recent Advances in Biomedical Applications of Multifunctional Nanocomposites"
In book entitled "Recent Developments in Bio-Nanocomposites for Biomedical Applications",
Avinash C. Pandey, **Prashant K. Sharma**, Ranu K. Dutta,
Nova Science Publishers, Inc, Chapter 20, pp.409-432, **2010**. **ISBN 978-1-61761-008-0**

Peer Reviewed Research Articles

S.N.	Title / Authors / Citation (Year wise sorted) / Impact Factor / Special Note, if any
113.	Hydrothermal-assisted green synthesis of Ni/Ag@rGO nanocomposite using Punica granatum juice and electrochemical detection of ascorbic acid Trupti R. Das, Prashant K. Sharma <i>Microchemical Journal</i> , 156, 104850, 2020 , (Impact Factor: 4.82) Q Rank: 2
112.	Bimetal oxide decorated graphene oxide (Gd ₂ O ₃ /Bi ₂ O ₃ @GO) nanocomposite as an excellent adsorbent in the removal of methyl orange dye Trupti R. Das, Prashant K. Sharma <i>Materials Science in Semiconductor Processing</i> , 105,104721, 2020 . (Impact Factor: 3.97) Q Rank: 2
111.	Template assisted hydrothermal synthesis of CoSnO ₃ hollow microspheres for electrocatalytic oxygen evolution reaction Suryakanti Debata, Sanchari Banerjee, Sanchari Chakraborty, Prashant K. Sharma <i>International Journal of Hydrogen Energy</i> , 44(39), 21623-21636, 2019 . (Impact Factor: 5.81) Q Rank: 1
110.	Sensitive and selective electrochemical detection of Cd ²⁺ by using bimetal oxide decorated Graphene oxide (Bi ₂ O ₃ /Fe ₂ O ₃ @GO) electrode Trupti R. Das and Prashant K. Sharma <i>Microchemical Journal</i> , 147, 1203-1214, 2019 . (Impact Factor: 4.82) Q Rank: 2
109.	Marigold shaped N-rGO-MoS ₂ -Ni(OH) ₂ nanocomposite as a bifunctional electrocatalyst for the promotion of overall water splitting in alkaline medium, Suryakanti Debata, Sanchari Banerjee, Prashant K. Sharma , <i>Electrochimica Acta</i> , 303, 257-267, 2019 , (Impact Factor: 6.9) Q Rank: 1
108.	Synthesis, characterization and electrochemical monitoring of drug release properties of dual stimuli responsive mesoporous GdPO ₄ :Eu ³⁺ nanoparticles, Manisha Kumari, Shrabani Mondal, Prashant K. Sharma , <i>Journal of Alloys and Compounds</i> , 776,5,654-665, 2019 (Impact Factor: 5.31). Q Rank: 1
107.	Controlled Hydrothermal Synthesis of Graphene Supported NiCo ₂ O ₄ Coral-Like Nanostructures: An Efficient Electrocatalyst for Overall Water Splitting Suryakanti Debata, Santanu Patra, Sanchari Banerjee, Rashmi Madhuri and Prashant K. Sharma <i>Applied Surface Science</i> , 449, 203-212, 2018 . (Impact Factor: 6.7) Q Rank: 1
106.	Polymeric Iron Oxide-Graphene Nanocomposite as a Trace Level Sensor of Vitamin C Trupti R. Das, Suchit Kumar Jena, Rashmi Madhuri and Prashant K. Sharma <i>Applied Surface Science</i> , 449, 304-313, 2018 . (Impact Factor: 6.18) Q Rank: 1
105.	Electrocatalytic behavior of transition metal (Ni, Fe, Cr) doped metal oxide nanocomposites for oxygen evolution reaction Sanchari Banerjee, Suryakanti Debata, Rashmi Madhuri and Prashant K. Sharma <i>Applied Surface Science</i> , 449, 660-668, 2018 . (Impact Factor: 6.18) Q Rank: 1
104.	Designing of fluorescent and magnetic imprinted polymer for rapid, selective and sensitive detection of imidacloprid via Activators regenerated by the electron transfer-atom transfer radical polymerization (ARGET-ATRP) technique Sunil Kumar, Rashmi Madhuri and Prashant K. Sharma <i>Journal of Physics and Chemistry of Solids</i> , 116, 222-233, 2018 . (Impact Factor: 3.44) Q Rank: 2
103.	Bismuth Oxide Decorated Graphene Oxide Nanocomposites synthesized via Sonochemical Assisted Hydrothermal Method for Adsorption of Cationic Organic Dyes,

- TR Das, S Patra, R Madhuri, **Prashant K. Sharma**,
Journal of Colloid and Interface Science 509C, 82-93, **2018**. (Impact Factor: 7.5) Q Rank: 1
102. Acetaminophen and acetone sensing capabilities of nickel ferrite nanostructures,
S Mondal, M Kumari, R Madhuri, **Prashant K. Sharma**,
Applied Physics A: Materials Science and Processing 123, 494, **2017**. (Impact Factor: 1.81) Q Rank: 2
101. Probing the Shape-Specific Electrochemical Properties of Cobalt Oxide Nanostructures for its Application as Selective and Sensitive Non-Enzymatic Glucose Sensor,
S Mondal, R Madhuri, **Prashant K. Sharma**,
Journal of Materials Chemistry C, 5, 6497-6505, **2017**. (Impact Factor: 7.1) Q Rank: 1
100. Synthesis of single phase $\text{Fe}_x\text{Sn}_{1-x}\text{O}_2$ nanoparticles with enhanced structural, optical and magnetic properties
M Kumari, S Mondal, R Madhuri, **Prashant K. Sharma**
Journal of Alloys and Compounds, 717, 260–270, **2017**, (Impact Factor: 4.65). Q Rank: 1
99. Introduction of selectivity and specificity to graphene using an inimitable combination of molecular imprinting and nanotechnology
E Roy, S Patra, A Tiwari, R Madhuri, and **Prashant K. Sharma**
Biosensors and Bioelectronics, 89(1), 234-248, **2017**, (Impact Factor: 10.25). Q Rank: 1
98. 2-Dimensional graphene as a route for emergence of additional dimension nanomaterials
S Patra, E Roy, A Tiwari, R Madhuri, and **Prashant K. Sharma**
Biosensors and Bioelectronics, 89 (1), 8-27, **2017**, (Impact Factor: 10.25). Q Rank: 1
97. Shape effect on the fabrication of imprinted nanoparticles: Comparison between spherical-, rod-, hexagonal-, and flower-shaped nanoparticles
E Roy, S Patra, S Saha, D Kumar, R Madhuri, **Prashant K. Sharma**
Chemical Engineering Journal 321, 195-206, **2017**. (Impact Factor: 10.65). Q Rank: 1
96. Electrochemical sensing of cyanometallic compound using TiO_2/PVA nanocomposite-modified electrode
Shrabani Mondal, Rashmi Madhuri and **Prashant K. Sharma**
Journal of Applied Electrochemistry, 47, 75–83, **2017**. (Impact Factor: 3.0). Q Rank: 2
95. Heteroatom-doped graphene 'Idli': A green and foody approach towards development of metal free bifunctional catalyst for rechargeable zinc-air battery,
Santanu Patra, Raksha Choudhary, Ekta Roy, Rashmi Madhuri, **Prashant K. Sharma**,
Nano Energy 30, 118–129, **2016** (Impact Factor: 16.6). Q Rank: 1
94. A single solution for arsenite and arsenate removal from drinking water using cysteine@ $\text{ZnS}:\text{TiO}_2$ nanoparticle modified molecularly imprinted biofouling-resistant filtration membrane
E Roy, S Patra, Rashmi Madhuri and **Prashant K. Sharma**
Chemical Engineering Journal, 304, 259-270, **2016**, (Impact Factor: 10.65). Q Rank: 1
93. Europium doped magnetic graphene oxide-MWCNT nanohybrid for estimation and removal of arsenate and arsenite from real water samples
E Roy, S Patra, Rashmi Madhuri and **Prashant K. Sharma**
Chemical Engineering Journal, 299, 244-254, **2016**, (Impact Factor: 10.65). Q Rank: 1
92. Molecularly imprinted star polymer modified superparamagnetic iron oxide nanoparticle for the trace level sensing and separation of mancozeb
Sunil Kumar, Paramita Karfa, Santanu Patra, Rashmi Madhuri and **Prashant K. Sharma**
RSC Adv., 6, 36751-36760, **2016**, (Impact Factor: 3.84). Q Rank: 1
91. Nanocomposite of bimetallic nanodendrite and reduced graphene oxide as a novel platform for molecular imprinting technology
Santanu Patra, Ekta Roy, Rashmi Madhuri, **Prashant K. Sharma**
Analytica Chimica Acta, 918, 77–88, **2016**, (Impact Factor: 6.0). Q Rank: 1

90. Stimuli-responsive poly (N-isopropyl acrylamide)-co-tyrosine@ gadolinium: Iron oxide nanoparticle-based nanotheranostic for cancer diagnosis and treatment
E Roy, S Patra, R Madhuri, [Prashant K. Sharma](#)
Colloids and Surfaces B: Biointerfaces 142, 248-258, **2016**, (Impact Factor: 4.38). [Q Rank: 1](#)
89. Agar Based Bimetallic Nanoparticles as High-Performance Renewable Adsorbent for Removal and Degradation of Cationic Organic Dyes,
Santanu Patra, Ekta Roy, Rashmi Madhuri, [Prashant K. Sharma](#)
Journal of Industrial & Engineering Chemistry, 33, 226-238, **2016**, (Impact Factor: 5.27). [Q Rank: 1](#)
88. PVA Assisted Low Temperature Anatase to Rutile Phase Transformation (ART) and Properties of Titania Nanoparticles
Shrabani Mondal, Rashmi Madhuri, [Prashant K. Sharma](#)
Journal of Alloys and Compounds, 646, 565-572, **2015**, (Impact Factor: 4.65). [Q Rank: 1](#)
87. Fast and selective pre-concentration of europium from wastewater and coal soil by graphene oxide/silane@Fe₃O₄ dendritic nanostructure,
Santanu Patra, Ekta Roy, Rashmi Madhuri, and [Prashant K. Sharma](#),
ACS Environ. Sci. Technol., 49 (10), 6117–6126, **2015**. (Impact Factor: 7.86). [Q Rank: 1](#)
86. Developing electrochemical sensor for point-of-care diagnostics of oxidative stress marker using imprinted bimetallic Fe/Pd nanoparticle
Ekta Roy, Santanu Patra, Rashmi Madhuri, [Prashant K. Sharma](#)
Talanta, 132, 406-415, **2015**, (Impact Factor: 5.33) [Q Rank: 1](#)
85. Nano-iniferter based imprinted sensor for ultra trace level detection of prostate-specific antigen in both men and women
Santanu Patra, Ekta Roy, Rashmi Madhuri, [Prashant K. Sharma](#)
Biosensors & Bioelectronics, 66, 1-10, **2015**, (Impact Factor: 10.25) [Q Rank: 1](#)
84. Development of an imprinted polymeric sensor with dual sensing property for trace level estimation of zinc and arginine
Ekta Roy, Santanu Patra, Rashmi Madhuri, [Prashant K. Sharma](#)
Material Science and Engineering: C, 49, 25-33, **2015**, (Impact Factor: 5.88) [Q Rank: 1](#)
83. A metronidazole-probe sensor based on imprinted biocompatible nanofilm for rapid and sensitive detection of anaerobic protozoan
Ekta Roy, Soham Maity, Santanu Patra, Rashmi Madhuri, [Prashant K. Sharma](#)
RSC Advances, 4, 32881- 32893, **2014** (Impact Factor: 3.8) [Q Rank: 1](#)
82. Simultaneous determination of heavy metals in biological samples by a multiple-template imprinting technique: an electrochemical study.
Ekta Roy, Santanu Patra, Rashmi Madhuri, [Prashant K. Sharma](#)
RSC Advances, 4, 56690–56700, **2014**, (Impact Factor: 3.8) [Q Rank: 1](#)
81. Engineering of Gadofluoroprobes: Broad-spectrum applications from cancer diagnosis to therapy
Ranu Dutta, [Prashant K. Sharma](#), Vandana Tiwari, Vivek Tiwari, Anant B. Patel, Ravindra Pandey and Avinash C. Pandey,
App. Phys. Lett. 104, 023703, **2014**. (Impact Factor: 3.7) [Q Rank: 1](#)
80. Gold nanoparticle mediated designing of non-hydrolytic sol-gel cross-linked metformin imprinted polymer network: A theoretical and experimental study
Ekta Roy, Santanu Patra, Rashmi Madhuri, [Prashant K. Sharma](#)
Talanta, 120, 198-207, **2014**. (Impact Factor: 5.33) [Q Rank: 1](#)
79. Switching in structural, optical, and magnetic properties of self-assembled Co-doped ZnO: effect of Co-concentration
Richa Bhargava, [Prashant K. Sharma](#), Sushant Singh, Avinash C. Pandey and Naresh Kumar

- Journal of Mat. Sci.: Materials in Electronics**, 25:552–559, **2014**. (Impact Factor: 2.22) [Q Rank: 2](#)
78. Nanosphere in Ferroelectric Liquid Crystal Matrix: The Effect of Aggregation and Defects on the Dielectric and Electro-Optical Properties
D P Singh, S K Gupta, [Prashant K. Sharma](#), R Manohar
Advances in Condensed Matter Physics, <http://dx.doi.org/10.1155/2013/250301>, **2013**. (Impact Factor: 1.03) [Q Rank: 3](#)
77. Concentration Dependent Physical Parameters of Ferroelectric Liquid Crystal and ZnOS Nano material Composite System,
D P Singh, Rajiv Manohara, [Prashant K. Sharma](#) and Avinash C. Pandey,
Soft Materials, 11, 305–314, **2013**. (Impact Factor: 2.0), [Q Rank: 3](#)
76. Guest-Host interaction in ferroelectric liquid crystal-nanoparticle composite system,
Dharmendra P. Singh, Swadesh K. Gupta, Satya P. Yadav, [Prashant K. Sharma](#), Avinash C Pandey and Rajiv Manohar,
Bulletin of Materials Science, 0973-7669, **2013**. (Impact Factor: 1.40) [Q Rank: 2](#)
75. A Novel Up-Scalable Solution Combustion Synthesis of Bright Blue Luminescent BAM: Eu²⁺ Nanophosphors for PDP Applications
[Prashant K. Sharma](#), Ranu K Dutta and Avinash C Pandey
J. Applied. Physics, 112, 054321, **2013**. (Impact Factor: 2.3) [Q Rank: 1](#)
74. Engineering of superparamagnetic europodofluoroprobes (EGFP) and their biocompatibility evaluation through platelet aggregation studies
Ranu K Dutta, [Prashant K. Sharma](#) and Avinash C Pandey,
J. Materials Science, **2013**. (Impact Factor: 3.55) [Q Rank: 1](#)
73. Changes in Material Parameters for Dye-Doped Ferroelectric Liquid Crystal
Abhishek Kumar Misra, Pankaj Kumar Tripathi, [Prashant K. Sharma](#) & Rajiv Manohar
Phase Transitions, 86 (10), 977-986, **2013**. (Impact Factor: 1.02) [Q Rank: 3](#)
72. Performance of RGB (YAG:Eu³⁺, YAG:Tb³⁺ and BAM:Eu²⁺) plasma display nanophosphors
[Prashant K. Sharma](#), Ranu K Dutta and Avinash C Pandey,
J. Nanopart. Res., 14: 731, **2012**. (Impact Factor: 3.25) [Q Rank: 1](#)
71. Self-Assembled Nanofiber-Bundles of Single-Crystalline V₂O₅ for High-Performance Lithium-Ion Batteries
Khemchand Dewangan, Nupur Nikkan Sinha, [Prashant K. Sharma](#), Avinash C. Pandey, N. Munichandraiah, N. S. Gajbhiye,
Nanoscale, 4, 645-651, **2012**. (Impact Factor: 7.76) [Q Rank: 1](#)
70. Size-Dependent Emission Efficiency and Luminescence Characteristics of YBO₃:Tb³⁺ Nanocrystals under Vacuum Ultraviolet Excitations
[Prashant K. Sharma](#), Ranu K Dutta and Avinash C Pandey,
J. Appl. Phys. 112, 054321, **2012**. (Impact Factor: 2.3) [Q Rank: 1](#)
69. Green luminescent ZnO:Cu²⁺ nanoparticles for their applications in white-light generation from UV LEDs
[Prashant K. Sharma](#), Manvendra Kumar and Avinash C Pandey.
J. Nanopart. Res., 13:1629–1637, **2011**. (Impact Factor: 3.25) [Q Rank: 1](#)
68. Highly stabilized monodispersed citric acid capped ZnO:Cu²⁺ nanoparticles: Synthesis and characterization
[Prashant K. Sharma](#), Ranu K Dutta, Manvendra Kumar, Prashant K Singh, Avinash C Pandey and V N Singh,
IEEE Trans Nanotech, 10 (1), 163-169, **2011**. (Impact Factor: 2.2) [Q Rank: 2](#)
67. Synthesis and characterization of single-crystalline α -MoO₃ nanofibers for enhanced Li-ion intercalation applications
Khemchand Dewangan, Nupur Nikkan Sinha, [Prashant K. Sharma](#), Avinash C. Pandey, N.

- Munichandraiah and N. S. Gajbhiye,
***Cryst. Eng. Comm.* 13, 927-933, 2011. (Impact Factor: 4.1) Q Rank: 1**
66. Raman investigations of $Zn_{1-x}Co_xO$ nanocrystals: Role of starting precursors on vibrational properties
Richa Bhargava, **Prashant K. Sharma**, Sanjeev Kumar, Avinash C. Pandey and Naresh Kumar,
***Journal of Raman Spectroscopy*, 42 (9), 1802, 2011. (Impact Factor: 3.2) Q Rank: 1**
65. An ultra sensitive saccharides detection assay using carboxyl functionalized chitosan containing $Gd_2O_3 : Eu^{3+}$ nanoparticles probe
Ashutosh Tiwari, Dohiko Terada, **Prashant K. Sharma**, Vyom Parashar, Chiaki Yoshikawa, Avinash C. Pandey and Hisatoshi Kobayashi,
***Anal. Methods*, 3, 217-226, 2011. (Impact Factor: 2.59) Q Rank: 1**
64. Variation in structural, optical and magnetic properties of $Zn_{1-x}Cr_xO$ ($x = 0.0, 0.10, 0.15$, and 0.20) nanoparticles: role of dopant concentration on non-saturation of magnetization
Richa Bhargava, **Prashant K. Sharma**, Amit Chawla, Ramesh Chandra, Sanjeev Kumar, Avinash C. Pandey, Naresh Kumar,
***Mater. Chem. Phys.* 125 (3), 664-671, 2011. (Impact Factor: 3.4) Q Rank: 2**
63. Advances in Multifunctional Magnetic Nanoparticles
Prashant K. Sharma, Ranu K. Dutta and Avinash C Pandey,
***Adv Mat Letts*, 2(4), 246-263, 2011. (Impact Factor: 1.95) Q Rank: 3**
62. VUV excited photoluminescence of Eu^{3+} doped yttria nanoparticles
Prashant K. Sharma, Ranu K Dutta and Avinash C Pandey,
***Adv Mat Letts*, 2(4), 285-289, 2011. (Impact Factor: 1.95) Q Rank: 3**
61. Synthesis of CdS nanoparticles with enhanced optical properties
Vineet Singh, **Prashant K. Sharma**, Pratima Chauhan,
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Declaration: I hereby declare that the above information's are correct to the best of my knowledge.



(Dr. Prashant Kumar Sharma)