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Education						
Subject	Institution		Year	Details		
Ph. D.	University of Delhi		2001	Thesis topic:		
M. Sc.	CCS University, Meerut		1996	Subjects: Physical Chemistry		
				Subjects:		
Career Profile						
Organisation / Institution		Designation	Duration	Role		
Department of Chemistry, University of Delhi		Associate Professor	2015-till date	Teaching and Research		
Department of Chemistry, University of Delhi		Assistant Professor	2010-2015	Teaching and Research		
National Physical Laboratory, INDIA		Research Associate	2001-2003	Research and Development		
University of Massachusetts, Amherst, USA		Research Professor	2003-2005	Research and Development		
Yonsei University, Seoul Korea		Research Professor	2006-2008	Research and Development		
University of Central Florida		Research Scientist	2008-20010	Research and Development		
Research Interests / Specialization						
<u>Electrochemical Materials Science:</u> Energy Storage and Conversion Devices, Fuel Cells, Solar Cells, Electrochemical Supercapacitors, Semiconductors, Polymers, Surface and Solid-State Chemistry, Thin Film Electro-deposition, Nano materials						
Teaching Experience ( Subjects/Courses Taught)						
Molecular Spectroscopy Physical Chemistry of Materials						
Honors & Awards						
<b>Associate Professorship:</b> ICREA- University of Rovira i Virgili, Spain (2008) Reputed Fellowship from Spain Government to work at a Spanish University for 10 years						
<b>Young Scientist Award; International union of crystallography IUCr. (2001)</b> Award from international union of crystallography for outstanding contribution in crystallographic research						
<b>Referee for ACS &amp; Elsevier Science Journals</b> Subject expert with ACS, Elsevier, Electrochemical Society and several other scientific publishers for reviewing the						

**Publications (LAST FIVE YEARS)**

Books / Monographs

<u>Year of Publication</u>	<u>Title</u>	<u>Publisher</u>	<u>Co-Author</u>
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In Indexed/ Peer Reviewed Journals

- [85] Enhanced ferromagnetism in edge enriched holey/lacey reduced graphene oxide nanoribbons V. Sahu, V.K. Maurya, G. Singh, S. Patnaik, R.K. Sharma, *Materials & Design*, 132 (2017) 295-301
- [84] Thermal effects for the doped graphene quantum dots: cyclic voltammetry, P. R. Kharangarh, A. Kumar, R. K. Sharma, G. Singh *Advanced Materials Proceedings* “2017, 2(3), 171-175”
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- [82] Characterization of ganoderma lucidum: phytochemical and proteomic approach, NK Sethy, A Bhardwaj, VK Singh, **RK Sharma**, R Deswal, K Bhargava *Journal of Proteins & Proteomics* 8 (1)
- [81] Experimental, surface characterization and computational evaluation of the acid corrosion inhibition of mild steel by methoxycarbonylmethyltriphenylphosphonium bromide (MCMTPPB) M. Goyal, **R.K.Sharma**, G. Singh, O. Yadav, R. Kumar, *Indian Journal of Chemical Technology*, 2017
- [80] Enhanced ferromagnetism in edge enriched holey/lacey reduced graphene oxide nanoribbons , V Sahu, V.K Maurya, G.Singh, S. Patnaik, **R.K Sharma**, *Materials & design* 2017
- [79] High performance pseudocapacitor electrode materials based on CoCl<sub>2</sub> doped graphene quantum dots., A Kumar, **R K Sharma**, G Singh, S Umapathy, P.R. Kharangarh *Emerging Materials Research*, 1-27
- [78] Hierarchical polyaniline spikes over vegetable oil derived carbon aerogel for solid-state symmetric/asymmetric supercapacitor., V Sahu, R.B. Marichi, G. Singh, R.K. Sharma, **Electrochimica Acta** 240, (2017)146-154
- [77] Graphene nanoribbons @ vanadium oxide nanostrips for supercapacitive energy storage. V Sahu, S. Goel, R.K. Sharma, G. Singh., Accepted for publication in **Electrochimica Acta** 230(2017) 255-264
- [76] Anti-corrosive properties of 2, 3-dihydroxyquinoxaline on mild steel corrosion in sulphuric acid., K Kansal, R Chopra, R Kumar, B Yadav, RK Sharma, G Singh., *IJCT Vol.24(2)*2017
- [75] In situ immobilized, magnetite nanoplatelets over holey graphene nanoribbons for high performance solid state supercapacitor., Shubra Lalwani, Vikrant Sahu, Ram B. Marichi, Gurmeet Singh, **Raj Kishore Sharma** *Electrochimica Acta* 224(2017)517–526
- [74] Turning hazardous diesel soot into high performance Carbon/MnO<sub>2</sub> supercapacitive energy

storage material., Vikrant Sahu, Monu Mishra, Govind Gupta, Gurmeet Singh, and **Raj Kishore Sharma.**, *ACS Sustainable Chem. Engg* 2017, 5 (1)

- [73] Phytochemical and Proteomic Analysis of A High Altitude Medicinal Mushroom Cordyceps Sinensis., NK Sethy, VK Singh, S Sharma, **R.K. Sharma**, R Deswal, K Bhargava., *Journal of Proteins & Proteomics* **7(2016)187-197**
- [72] CuO/Reduced Graphene Oxide Nanocomposite for High Performance Non-Enzymatic, Cost Effective Glucose Sensor., Vikrant Sahu<sup>1</sup>, Sonia Grover, Meenakshi Sharma, Akash Pandey, Gurmeet Singh and **Raj Kishore Sharma**, *Sensor Letters* **14, 1–6, 2016**
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- [69] Nickel-Shell Assisted Growth of Nickel-Cobalt Hydroxide Nanofibres and their Symmetric/Asymmetric Supercapacitive Characteristics. R. B. Marichi, V. Sahu, S. Lalwani, M. Mishra, G.Gupta, **R.K.Sharma**, G.Singh *J. Power Sources* **325, 762–771, 2016**
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- [66] Cobalt Dithiocarbamate Coordination Polymeric Nanoparticles: Morphology Dependent Magnetic and Antimicrobial Properties.S. Ujjain, P. Ahuja, R. Bhatia, M. Sharma, **R. K. Sharma**, G. Singh *Journal of Nanoscience and Nanotechnology* **15 (12), 9396-9406, 2015**
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- [63] Asymmetric Supercapacitive Characteristics of PANI Embedded Holey Graphene Nanoribbons. **R. K. Sharma**, S. Grover, V. Sahu, S. Goel, G. Singh, *ACS Sustainable Chem. Eng.*

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	Sharma, S. T. Lakshmikumar	<i>Physica "E" Nanostructured Materials</i>	<b>8, 264, 2005</b>
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<u>Articles</u>		
<u>Conference Presentations</u>		
Total Publication Profile optional		
<u>Books</u>		
<u>In Indexed/ Peer Reviewed Journals</u>		
<u>Articles</u>		



<u>Conference Presentations</u>
Public Service / University Service / Consulting Activity
Professional Societies Memberships
Projects (Major Grants / Collaborations)
<ol style="list-style-type: none"> <li>1. <b>Synthesis and Application of Highly Dispersed, Functionalized Multiwall Carbon Nanotube ..... electrodes in a supercapacitor device, CSIR funded Completed</b></li> <li>2. <b>Metal oxide ..... nano-composite electrodes for application in Supercapacitor Device, UGC Sponsored Completed project</b></li> <li>3. <b>Synthesis and Characterization of Conducting Polymer based Nano-composite ... Novel Structures, DST Funded Completed</b></li> </ol>
Other Details