

Resume



1. Name **Dr. Naveen Verma**
2. Designation: Assistant Professor
3. Office Address: Department of Chemistry
M. D. University, Rohtak-124001, India
Office Phone: +91-1262393131
4. Residential Address: 410, Old Housing Board Colony, Rohtak 124001,
India
Residential Phone: +91-9996415102(Mob)
5. Email: vermanaveen17@gmail.com
verma_naveen17@yahoo.co.in
6. Date of Birth: 17-10-1980
7. Date of Joining M.D.U 01-05-2010
8. Field of Specialization: Physical Chemistry
9. Teaching Experience: 6 Years
Research Experience 10 Years
10. Field of Research **Anodic oxide film on metals**
Interest/ Area of Interest **Phosphor Materials, Photocatalysis**
Solution Thermodynamics
11. Profile Enthusiastic, responsible, able to work
independently using initiative, and as part of a team
with a positive attitude. Proficient in teaching with
innovative ideas.

12. Technical skills

Experience in handling 2-Drop Calorimeter(Calorimetry Sciences Corporation), Spectro Photometer, Ultrasonic Interferometer; Spectrophotometry (UV-VIS); Potentiometry; Polarimetry and Flame Photometry etc.

13. Academic Awards/Achievements

Qualified GATE (Graduate Aptitude Test in Engineering) in 2004.

Qualified UGC-JRF NET for fellowship and lectureship in June 2004.

14. Educational qualifications

Degree	Year of passing	University/ Institute
Ph. D	2009	M. D. University, Rohtak, Haryana
M. Sc.	2004	M. D. University, Rohtak, Haryana
B. Sc	2001	M. D. University, Rohtak, Haryana

15. Academic Societies Membership

Life Member Indian Science Congress Association, Kolkata.

Life Member Indian chemical Society, Kolkata.

Life Member Indian Thermodynamic society

16. Career profile

Designation	Institute served	Duration	
		From	To
Lecturer (AssistanProfessor)	Haryana Institute Of Technology, Asoda Haryana	July 2008	December2008
AssistanProfessor	Department of Chemistry, M.D. University, Rohtak	May, 2010	Till now

17. Project undertaken

Title of the project	Duration	Funding agency	Status
Anodic Oxide Films on	2011-2014	UGC, New Delhi	Completed

Metals and Alloys			
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18. Publications

Research papers Journals 19(Annexure-I A)

19. Participation in conferences/seminars 11 (Annexure I B)

20. Research Assignment outside M. D. University, Rohtak

India:

Refresher course: From ACS Jamia Melia Islamia, New Delhi
Orientation Course: From ACS B.P.S. Mahila Vishwavidyalya,
Khanpur Kalan (Sonepat)

Abroad:

Visited University of Polytechnica, Valencia, Spain under Nano
CIS project Funded by European Union in 2013 and 2014.

1. **Optical properties of Yb-doped ZnO/MgO composites**, Bernabe Mari Soucase, K.C. Singh, **Naveen Verma**, Jitender Jindal, Ceramic International , 42(11) 13018-13023.
2. **Structural and electrochemical impedance spectroscopic studies of anodic oxide film on zirconium fabricated in different aqueous electrolyte**, **Naveen Verma**, Krishan Chander Singh, Jitender Jindal ,Bernabe Marí and Miguel Mollar, Journal of Australian Ceramic Society **52(2) 2016,111-119**
3. **Structural and optical properties of Ta₂O₅:Eu³⁺: Mg²⁺ or Ca²⁺ phosphor prepared by molten salt method**
Naveen Verma, Bernabe Mari, Krishan Chander Singh, Jitender Jindal, Miguel Mollar, Ravi Rana, A. L. J. Pereira , F. J. Manjón, AIP Conference Proceedings **1724**, 020082 (2016); doi: 10.1063/1.4945202
4. **Luminescence properties of ZnMoO₄:Eu³⁺:Y³⁺ materials synthesized by solution combustion synthesis method**, Naveen Verma, Bernabe Mari, Krishan Chander Singh, Jitender Jindal, Miguel Mollar, and Suprabha Yadav, AIP Conference Proceedings **1724**, 020122 (2016); doi: 10.1063/1.4945242
5. **Synthesis and characterization of nanoporous anodic oxide film on aluminum in H₃PO₄ + KMnO₄ electrolyte mixture at different anodization conditions**
Naveen Verma, Jitender Jindal, Krishan Chander Singh, and Bernabe Mari
AIP Conference Proceedings **1724**, 020044 (2016); doi: 10.1063/1.4945164
6. **Anodic Oxide Films on Niobium and Tantalum in Different Aqueous Electrolytes and Their Impedance Characteristics**
N. Verma, K.C. Singh, B. Marí, M. Mollar, J. Jindal, Acta Physica Polonica, 129(3) 297-303(2016).
7. **Luminescence Properties of the Eu²⁺/Eu³⁺ Activated Barium Aluminate Phosphors with Gd³⁺ concentration Variation**
B. Marí, K. C. Singh, **N. Verma**, M. Mollar & J. Jindal, Trans. Ind. Ceram. Soc., vol. 74(3) 3, 1-5 (2015).
8. **Fabrication of Nanomaterials on Porous Anodic Alumina Template Using Various Techniques**, **Naveen Verma**, Krishan Chander Singh, Jitender Jindal, Indian Journal of Advances in Chemical Science 3(3) (2015) 235-246

9. **Influence of anodization parameters of first step on structural features of porous anodic alumina (PAA) finally formed in phosphoric acid**, Naveen Verma, Krishan Chander Singh, Bernabe Mari, Jitender Jindal, Journal of Indian Chemical Society , 92, **2015**, 1237-1243
10. **Ultrasonic studies of molecular interactions in binary mixtures of formamide with some isomers of butanol at 298.15 K and 308.15 K**. Manju Rani , Suman Gahlyan , Hari Om, **Naveen Verma** , Sanjeev Maken, Journal of Molecular Liquids 194 (**2014**) 100–109. ISSN: 0167-7322.
11. **Fabrication of Porous Anodic Alumina by Two Step Anodic Oxidation and Photo Luminescent Properties of doped and undoped Alumina** , **Naveen Verma**, Krishan Chander Singh, Bernabe Mari, Hari Om, Jitender Jindal, Chem Sci Rev Lett **2014**, 3(11), 597-602, ISSN 2278-6783.
12. **Fabrication and Structural Studies of Porous Anodic Oxide Film on Pure Aluminium and Aluminium Alloy (AA 1100)**, **Naveen Verma**, Krishan Chander Singh, Bernabe Mari and Jitender, Chemical Science Transactions **2014**, 3(2), 556-561, ISSN: 2278-3318
13. **Porous anodic alumina film formation in oxalic and phosphoric acid solutions and their photoluminescence properties**. **Naveen Kumar**, Krishan Chander Singh, Hariom, Jitender, Research and Reviews in electrochemistry, 4(4), **2013** ,117-120 ISSN : 0974 - 7540
14. **High field ionic conduction in anodic oxide films on tantalum in aqueous electrolytes**, Hariom, **Naveen Verma** *, Krishan Chander Singh, European Journal of Applied Engineering and Scientific Research, **2013**, 2 (1):25-35., ISSN: 2278 – 0041.
15. **Excess Molar Enthalpies of mixing of sec- or tert- butyl chloride with aromatic hydrocarbons at temperature 308.15 K**, **Naveen Verma**, Hari Om, Krishan Chander Singh, Journal of Chemical, Biological and Physical science, Sec A, **2012**, Vol.2, No. 4, 1736-46, E-ISSN: 2249-1929.
16. **Volumetric properties of sec- and tert-butyl chloride with benzene, toluene and xylenes at 308.15 K**. **N. Verma**, S. Maken, K.C. Singh, J.W. Park. J. Molecular Liquids. Volume 141, Issues 1-2, 30 May 2008, Pages 35-38

17. **Excess Gibb's free energy of butyl acetate with cyclohexane and aromatic hydrocarbons at 308.15 K.** S. Maken, Naveen Verma, Ankur Gaur, K.C. Singh, and J.W. Park. Korean J. Chemical Engineering. 25(2) 273-278(2008).
18. **Molar Excess Volume of *sec*- and *tert*-Butyl Chloride with Aromatic Hydrocarbons at 298.15 K.** Naveen Verma, Sanjeev Maken, Balraj Deshwal, Krishan Chander Singh, Jin-Won Park, J.Chem.Eng.Data,2007,52, 2083-2085.
19. **Molar Excess Volume of Butyl Acetate with Cyclohexane or Aromatic Hydrocarbons at 298.15 K** Sanjeev Maken , Ankur Gaur, Naveen Verma, K. C. Singh , Seungmoon Lee and Jin-Won Park J. Ind. Eng. Chem., Vol. 13, No. 7, (2007) 1098-1102

Conference Attended

Annexure I B

Papers presented in conference/seminar/workshop/symposia etc.

Sr. No.	Title of the paper presented	Presented by	Title of the conference/ seminar etc & organizer	Date of the event
1	Excess Gibb's free energy of butyl acetate with cyclohexane and aromatic hydrocarbons at 308.15 K	Naveen Verma	95th Indian Science congress held at Visakhapatnam	03-07 Jan, 2008
2	Volumetric properties of <i>sec</i> - and <i>tert</i> -butyl chloride with benzene, toluene and xylenes at 308.15"	Naveen Verma	95th Indian Science congress held at Visakhapatnam	03-07 Jan, 2008
3	Study of Thermodynamic molecular interactions in liquid mixtures containing isomeric chlorobutanes + cyclohexane or benzene or toluene mixtures at temperature 303.15 K	Naveen Verma	National conference on Global Challenges New Frontier in Chemical Sciences, Kurukshetra University Kurukshetra, Haryana	22-23 Sep, 2012
4	Excess molar enthalpies and isothermal (vapour liquid) equilibria of <i>sec</i> butyl chloride + cyclohexane or benzene or toluene mixtures.	Naveen Verma	International conference on Green Technologies For Environmental Rehabilitation, Gurukul Kangri, Haridwar, Uttarakhand	11-13 Feb, 2012

5	Porous anodic alumina film formation in oxalic & phosphoric acid solutions and photoluminescence properties	Naveen Verma	National conference on Advances In Chemical Sciences, Maharshi Dayanand University, Rohtak.	1-2 March, 2013
6	Structural Studies Of Porous Anodic Alumina Formed In Phosphoric Acid By Two Step Anodic Oxidation And Influence Of Applied Voltage For Fabrication of Ordered Porous Structure.	Naveen Verma	International conference on Interdisciplinary Areas With Chemical Sciences, Punjab university, Chandigarh	30 Oct- 1 Nov. 2013
7	Improved porous structure of anodic alumina formed in Phosphoric acid by two step anodic oxidation	Naveen Verma	National Conference on Emerging Trends in Engineering & Sciences. Gurukul Kangri, Haridwar, Uttarakhand	9-10 Nov. 2013
8	Influence of anodization parameters of first step on structural features of porous anodic alumina (PAA) finally formed in phosphoric acid	Naveen Verma	101 st Indian Science Congress Association, University of Jammu, Jammu	3-7 Feb. 2014
8.	Surface and Electrochemical Impedence characteristics of Anodic Oxide Film on Ta and Nb in Different aqueous electrolyte	Naveen Verma	101 st Indian Science Congress Association, University of Mumbai, Mumbai	3-7 Jan 2015
9	Anodic oxide film on aluminium in H ₃ PO ₄ + KMnO ₄ electrolyte mixture at different anodization conditions	Naveen Verma	National conference on Emerging Trends in Chemical Sciences and Technlogy(ETCST-15) CDLU -Sirsa	Feb 25, 2015

10	Luminescent Properties of $\text{CaAl}_2\text{O}_4: \text{Eu}^{3+}, \text{Gd}^{3+}$ phosphor synthesized by combustion synthesis method.	Naveen Verma	National conference on Science and technology for Indegenious development on India ISCA-Haridwar Chapter Gurukul Kangri University, haridwar, Utrakhand	September 28-30. 2015
11	Spectral properties of the $\text{Eu}^{2+} / \text{Eu}^{3+}$ activated Barium aluminate phosphors with varies Gd^{3+} concentration by combustion method	Naveen Verma	International conference on Nascent development on chemical sciences BITS-PILANI	October 16-18, 2015