

List of publications

Papers published

1. “Rietveld refinement, micro-structural, optical and thermal parameters of zirconium titanate composites”,
Surbhi Verma, Saruchi Rani, Sushil Kumar, M.A. Majeed Khan
Ceramic International, 44(2), 2018, 1653-1661, **Elsevier**.
2. “Effect of annealing temperature on structural, photoluminescence and thermal properties of nanosized zirconium silicates”
Surbhi, Saruchi Rani, Sushil Kumar
Advanced Science Letters, 20 (7-9), 2014, 1504-1508, **American Scientific**.
3. “Thermal evolution of mixed oxides of Zirconia-Silica prepared by sol-gel Route”
Surbhi, Saruchi, Sushil Kumar,
Physics of Semoconductor Devices, Environmental Science & Engineering, 2014, 749-751, **Springer International Publishing**.
4. “Structural investigations on Nd-doped silica nanocomposites: Effect of sintering temperature and dopant concentration”
Surbhi, Saruchi, Praveen Aghamkar, Sushil Kumar
Philosophical Magazine Letters, 94, 2014, 503-515. **Taylor and Francis**

List of papers under review/ communicated

1. “Tetragonal zirconia quantum dots in silica matrix prepared by a modified sol-gel protocol”
Surbhi Verma, Saruchi Rani, Sushil Kumar
Applied Physics A: Materials Science & Processing, Springer
(Revised/modified manuscript submitted to editor)
2. “Crystal structure, morphology and optical behaviour of sol-gel derived pyrochlore rare earth titanates $RE_2Ti_2O_7$ (RE=Dy, Sm)”
Surbhi Verma, Saruchi Rani, Sushil Kumar
Journal of Alloys and Compounds, Elsevier (Under review)
3. “Anatase titania quantum dots stabilized in silica matrix via sol-gel scheme”
Surbhi Verma, Saruchi Rani, Sushil Kumar
Journal of Materials Science, Springer (Communicated)

Papers presented in International/National conferences

1. “Structural and optical properties of $x\text{ZrO}_2-(1-x)\text{SiO}_2$: Compositional effect”
Surbhi, Saruchi Rani, Sushil Kumar
International Conference on Materials Science and Technology (**ICMTech-2016**) at University of Delhi, Delhi on Mar. 1-4, 2016.
2. “Structural, optical and thermal characterization of sol-gel derived nanodimensional Zirconium Silicates”
International Conference on Soft Materials (**ICSM-2014**) at Malviya National Institute of Technology, Jaipur on Oct. 6-10, 2014.
3. “Thermal Evolution of Mixed Oxides of Zirconia-Silica Prepared by Sol-gel Route”
17th International Workshop on Physics of Semiconductor Devices (**IWPSD-2013**) at Amity University, Noida on Dec. 10-13, 2013.
4. “Structural studies of nanosized $\text{ZrO}_2\text{-SiO}_2$ mixed oxides synthesized by sol-gel method”
International Conference on Nanoscience and Nanotechnology (**ICNN-2013**) at Babasaheb Bhimrao Ambedkar University, Lucknow on Nov. 18-20, 2013.
5. “Preparation and structural characterization of nanosized $\text{ZrO}_2\text{-SiO}_2$ mixed metal oxides”
International Conference on Recent Trends in Applied Physics and Material Science (**RAM-2013**) at Govt. College of Engineering & Technology, Bikaner on Feb. 01-02, 2013.
6. “Structural and thermal characterization of sol-gel derived nanodimensional Zirconium Silicates”
National Conference on Emerging Trends in Physics and Materials Science (**ETPMS-2015**) at Chaudhary Devi Lal University, Sirsa, Haryana on Mar. 9-10, 2015.
7. “Effect of annealing temperature on structural, photoluminescence and thermal properties of Nanosized Zirconium Silicates”
National Conference on Nanotechnology and Renewable Energy (**NCNRE-2014**) at Jamia Millia Islamia, A Central University, New Delhi on Apr. 27-28, 2014.