



Dr. Mohan L Verma

(Msc, PhD)

Professor & Head, Department of Applied Physics
FET, SSGI, Shri Shankaracharya Technical Campus
Junwani, Bhilai (Chhattisgarh) INDIA 490020

Email : drmohanlv@gmail.com,
drmohanlv@sstc.ac.in

Web : www.drmlv.in

My 10 Best Publications

1. **Mohan L Verma**, Manickam Minakshi, Nirbhay K Singh
[Synthesis and characterization of solid polymer electrolyte based on activated carbon for solid state capacitor](#)
Electrochimica Acta, 2014, 137, pp. 497-503 **Impact Factor: 4.798, Citations : 27.**
2. RC Agrawal, **Mohan L Verma**, RK Gupta
[A study of ionic transport properties on a new Ag⁺-ion-conducting composite electrolyte system:\(1-x\)\[0.75 AgI: 0.25 AgCl\]: xSiO₂](#)
Journal of Physics D: Applied Physics, 1998 31 (20), pp. 2854-2860, **Impact Factor: 2.588 Citations : 23.**
3. **Mohan L Verma**, Manickam Minakshi, Nirbhay K Singh
Structural and electrochemical properties of nanocomposite polymer electrolyte for electrochemical devices
Industrial & Engineering Chemistry Research, 2014, 53(39) pp. 14993-15001 **Impact Factor: 2.843, Citations : 17.**
4. RC Agrawal, **Mohan L Verma**, RK Gupta, S Thaker
Characterization of basic transport properties in a new fast Ag⁺ ion conducting composite electrolyte system:(1-x)[0.75 AgI: 0.25 AgCl]: xZrO₂

Solid State Ionics, 2000, 136–137(2), pp. 473-478, **Impact Factor: 2.354, Citations : 16.**

5. **Mohan L Verma**, Homendra D Sahu

[Ionic conductivity and dielectric behavior of PEO-based silver ion conducting nanocomposite polymer electrolytes](#)

Ionics, 2015, 21(12), pp 3223–3231, **Impact Factor: 2.062, Citations : 7.**

6. **Mohan L Verma**, B Keshav Rao

Ab initio study of ionic nature of 0.75 AgI: 0.25 AgCl

Solid State Ionics, 2017, 310(1), pp 56-61, Impact Factor: 2.354.

7. **Mohan L Verma**, B Keshav Rao, Rachna Singh, Durga Banchor, Homendra D Sahu

[Ab initio study of mechanical strength of solid polymer electrolyte \(PEO\) 5LiClO₄](#)

Ionics, 2017, 23(10), pp 2715–2720, **Impact Factor: 2.062.**

8. Rachna Singh, B Keshav Rao, **Mohan L Verma**

[Structural, electronic and transport properties of X₃SnC \(X= Cr/Mn/Cu\) electrodes—first principle approach](#)

Ionics, 2017, pp 1–8, <https://doi.org/10.1007/s11581-017-2407-0> **Impact Factor: 2.062.**

9. **Mohan L Verma**, B Keshav Rao

[Modeling of Ag⁺ mobility in AgI by space charge depolarization process](#)

Ionics, 2011, 17(4) pp 323–329, **Impact Factor: 2.062, Citations : 4.**

10. B Keshav Rao, **Mohan L Verma**

[Modeling of space charge dielectric constant](#)

Ionics, 2017, 23(6), pp. 1563-1567, **Impact Factor: 2.062.**
