

List of Publications

(Total No. of Papers: 72; ISI papers: 54)

In Journals

1. Cationic effect on dye-sensitized solar cell properties using electrochemical impedance and transient absorption spectroscopy techniques, *R. K. Gupta, I. Bedja, Journal of Physics D-Applied Physics* 50 (2017) 245501. [Link](#)
2. Heteroleptic Ru(II) cyclometalated complexes derived from benzimidazole-phenyl carbene ligands for dye-sensitized solar cells: an experimental and theoretical approach, *T. Jella, M. Srikanth, Y. Soujanya, S. P. Singh, L. Giribabu, A. Islam, L. Han, I. Bedja, R. K. Gupta, Materials Chemistry Frontiers* 1 (2017) 947-957. [Link](#)
3. Effect of different auxiliary ligands and anchoring ligands on neutral thiocyanate-free ruthenium(II) dyes bearing tetrazole chromophores for dye-sensitized solar cells, *G. Wu, R. Kaneko, K. Sugawa, A. Islam, I. Bedja, R. K. Gupta, L. Han, J. Otsuki, Dyes and Pigments* 140 (2017) 354-362. [Link](#)
4. Effect of spacer and anchoring group of extended π -conjugated tetrathiafulvalene based sensitizers on the performance of dye sensitized solar cells, *L. Giribabu, N. Duvva, S.P. Singh, L. Han, I. M. Bedja, R. K. Gupta, A. Islam, Sustainable Energy & Fuels* 1 (2017) 345-353. [Link](#)
5. Donor- π -acceptor based stable porphyrin sensitizers for dye-sensitized solar cells: Effect of π -conjugated spacers, *N. V. Krishna, V. S. K. Jonnadula, S.P. Singh, L. Giribabu, L. Han, I. Bedja, R. K. Gupta, A. Islam, J. Phys. Chem. C* 121 (2017) 6464–6477. [Link](#)
6. Cyclometalated ruthenium complexes with 6-(*ortho*-methoxyphenyl)-2,2'-bipyridine as panchromatic dyes for dye-sensitized solar cells, *R. Kaneko, G. Wu, K. Sugawa, J. Otsuki, A. Islam, L. Han, I. Bedja, R. K. Gupta, Journal of Organometallic Chemistry* 833 (2017) 61-70. [Link](#)
7. A detailed investigation into the electrical conductivity and structural properties of [poly(ethylene oxide)-succinonitrile]-Li(CF₃SO₂)₂N solid polymer electrolytes, *R. K. Gupta, H.-W. Rhee, Bulletin of the Korean Chemical Society* 38 (2017) 356-363. [Link](#)
8. Stable and charge recombination minimized π -extended thioalkyl substituted tetrathiafulvalene dye-sensitized solar cells, *L. Giribabu, N. Duvva, S.P. Singh, L. Han, I. M. Bedja, R. K. Gupta, A. Islam, Materials Chemistry Frontiers*, 1 (2017) 460-467. [Link](#)
9. Thiocyanate-free asymmetric ruthenium(II) dye sensitizers containing azole chromophores with near-IR light-harvesting capacity, *G. Wu, R. Kaneko, A. Islam, Y. Zhang, K. Sugawa, L. Han, Q. Shen, I. Bedja, R. K. Gupta, J. Otsuki, Journal of Power Sources* 331 (2016) 100-111. [Link](#)
10. Near-infrared squaraine co-sensitizer for high-efficiency dye-sensitized solar cells, *G. Hanumantha Rao, A. Venkateswararao, L. Giribabu, L. Han, I. Bedja, R. K. Gupta, A. Islam, S. P. Singh, Physical Chemistry Chemical Physics* 18 (2016) 14279-14285. [Link](#)
11. Study of donor–acceptor– π -acceptor architecture sensitizers with benzothiazole acceptor for dye-sensitized solar cells. *G. Koyyada, S.P. Singh, K Bhanuprakash, L. Han, I. M. Bedja, R. K. Gupta, A. Islam, M. Chandrasekharam, Energy Technology* 4 (2016) 458-468. [Link](#)
12. Neutral and anionic tetrazole-based ligands in designing novel ruthenium dyes for dye-sensitized solar cells. *G. Wu, R. Kaneko, Y. Zhang, Y. Shinozaki, K. Sugawa, A. Islam, L. Han, I. Bedja, R. K. Gupta, Q. Shen, J. Otsuki, Journal of Power Sources* 307 (2016) 416-425. [Link](#)
13. More stable and more efficient alternatives of Z-907: carbazole-based amphiphilic Ru(II) sensitizers for dye-sensitized solar cells, *H. Cheema, A. Islam, R. Younts, B. Gautam, I. Bedja, R. K. Gupta, L. Han, K. Gundogdu, A. El-Shafei, Physical Chemistry Chemical Physics* 16 (2014) 27078-27087. [Link](#)
14. A comparative study of Ru (II) cyclometallated versus thiocyanated heteroleptic complexes: Thermodynamic force for efficient dye regeneration in dye-sensitized solar cells and how low could it be? *M. Hussain, A. Islam, I. Bedja, R. K. Gupta, L. Han, A. El-Shafei, Physical Chemistry Chemical Physics* 16 (2014) 14874-14881. [Link](#)
15. Improved cell efficiency of [poly(ethylene oxide)-succinonitrile]/ LiI-I₂ solid polymer electrolyte-based dye-sensitized solar cell. *R. K. Gupta, I. M. Bedja, Physica Status Solidi A* 211 (2014) 1601-1604. [Link](#)
16. Plasticizing effect of K⁺ ions and succinonitrile on electrical conductivity of [poly(ethylene oxide)–succinonitrile]/KI–I₂ redox-couple solid polymer electrolyte. *R. K. Gupta, H.-W. Rhee, J. Phys. Chem. B* 117 (2013) 7465–7471. [Link](#)
17. Improved performance of silicon nanoparticle film coated dye-sensitized solar cells. *R. K. Gupta, I. M. Bedja, A. S. Aldwayyan, Physica Status Solidi RRL* 6 (2012) 424–426. [Link](#)

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18. Effect of succinonitrile on electrical, structural, optical, and thermal properties of [poly(ethylene oxide)-succinonitrile]/LiI-I₂ redox-couple solid polymer electrolyte. *R. K. Gupta, H.-W. Rhee, Electrochimica Acta* 76 (2012) 159-164. [Link](#)
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22. Thermal, micro-structural and electrical properties of a La_{1-x}Sr_x Mn_{0.85}Fe_{0.05}Co_{0.05}Ni_{0.05}O_{3+δ} ($x = 0 - 0.4$ mole) cathode system, *R. K. Gupta, E.Y. Kim, Y. H. Kim, C. M. Whang, Metals and Materials International* 15 (2009) 1055-1060. [Link](#)
23. Dependence of processing parameters on structural properties and microstructures of pulsed laser deposited LiMn₂O₄ thin films, *D.W. Shin, R.K. Gupta, W.-K. Choi, Y.S. Cho, S.-J. Yoon, J.-W. Choi, Japanese Journal of Applied Physics* 48 (2009) 075501. [Link](#)
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27. Mechanical, electrical and micro-structural properties of La_{0.6}Sr_{0.4}Co_{0.2}Fe_{0.8}O₃ perovskite based ceramic foams. *R. K. Gupta, E.Y. Kim, H. S. Noh, C. M. Whang, Journal of Physics D-Applied Physics* 41 (2008) 032003. [Link](#)
28. Improvement of temperature coefficient of frequency in Ba-deficient Ba₅Nb₄O₁₅ microwave dielectrics. *Y. H. Jo, D. W. Shin, V. S. Saji, R. K. Gupta, H. S. Lee, Y. S. Cho, Journal of Ceramic Society of Japan* 115 (2007) 978-981. [Link](#)
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34. Transport properties and battery discharge characteristics of the Ag⁺ ion conducting composite electrolyte system: (1-x) [0.75AgI: 0.25AgCl]: Fe₂O₃. *R.C. Agrawal, R.K. Gupta, C.K. Sinha, R. Kumar, G. P. Pandey, Ionics* 10 (2004) 113-117. [Link](#)
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40. Ion transport and solid state battery studies on a new silver molybdate superionic glass system: $x[0.75\text{AgI}: 0.25\text{AgCl}]: (1-x) [\text{Ag}_2\text{O}: \text{MoO}_3]$. R.C. Agrawal, M.L. Verma, *R.K. Gupta*, R. Kumar, R.M. Chandola, *Ionics* 8 (2002) 426-432. [Link](#)
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45. Studies on persistent polarization/memory-type effect in Ag^+ ion conducting quenched $[0.75\text{AgI}: 0.25\text{AgCl}]$ mixed-system / solid-solution. R.C. Agrawal, Mohan L. Verma, *R.K. Gupta*, *Indian Journal of Pure & Applied Physics* 37 (1999) 334-337. [Link](#)
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58. Electrical, structural, optical and thermal properties of $(1-x)\text{Blend}: x\text{Li}[(\text{CF}_3\text{SO}_2)_2\text{N}]$ solid polymer electrolyte system, *R. K. Gupta*, H.-W. Rhee, in "Proceedings of the 14th Asian Conference on Solid State Ionics", 2014, p. 179-186.
59. Structural, thermal and electrical properties of a perovskite-type cathode system, $\text{La}_{0.75}\text{Sr}_{0.25}\text{Mn}_{0.95-x}\text{Co}_x\text{Ni}_{0.05}\text{O}_{3+\delta}$, *R.K. Gupta*, I.J. Choi, Y.S. Cho, in "Extended Abstract" of 26th Int. Japan-Korea Seminar on Ceramics (Ibraki, Japan, 2009) p. 602-605.

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