

Publications in the Department of Chemistry, Vidyasagar University

Prof. Braja Gopal Bag

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1. B.G. Bag, R. Majumdar, Vesicular self-assembly of a natural triterpenoid arjunolic acid in aqueous medium: study of entrapment properties and in situ generation of gel-gold nanoparticle hybrid material, *RSC Advances*, **2014**, 4, 53327.
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4. Bag B.G., Dash S.S., Roy A., Study of Antioxidant Property of the Rhizome Extract of *Roscoeae purpurea* Sm. (Kakoli) and its Use in Green Synthesis of Gold nanoparticles, *Int J Res Chem. Environ* 4 174 (**2014**).
5. S.S. Dash, B.G. Bag, P. Hota, *Lantana camara* Linn Leaf Extract Mediated Green Synthesis of Gold Nanoparticles and Study of its Catalytic Activity, *Appl. Nanosci.* DOI: 10.1007/s13204-014-0323-4 (**2014**)
6. S.S. Dash, B.G. Bag, Synthesis of gold nanoparticles using renewable *Punica granatum* juice and study of its catalytic activity, *Appl. Nanosci.*, 4, 55 (**2014**).
7. S.S. Dash, R. Majumdar, A.K. Sikder, B.G. Bag, B.K. Patra, *Saraca indica* bark extract mediated green synthesis of polyshaped gold nanoparticles and its application in catalytic reduction, *Appl. Nanosci.*, 4, 485 (**2014**).
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11. S.K. Dash, S. Chattopadhyay, S. S. Dash, S. Tripathy, B. Das, S. K. Mahapatra, B. G. Bag, P. Karmakar, S. Roy, Self assembled nano fibers of betulinic acid: A selective inducer for ROS/TNF-alpha pathway mediated leukemic cell death, *Bioorg. Chem.*, **2015**, 63, 85-100.
12. S. K. Dash, S. Chattopadhyay, S. Tripathy, S. S. Dash, B. Das, D. Mandal, S. Kar Mahapatra, B. G. Bag, S. Roy, Self-assembled betulinic acid augments immunomodulatory activity associates with IgG response, *Biomed Pharmacother*, **2015**, 75, 205-217.
13. S. K. Dash, S. Chattopadhyay, S. Tripathy, S. S. Dash, B. Das, D. Mandal, B.G. Bag, S. Roy, Betulinic acid, a natural bio-active compound: proficient to induce programmed cell death in human myeloid leukemia, *WJPPS*, **2015**, 3, 1348-1374.

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14. R. Majumdar, S. Tantayanon, B.G. Bag, A novel trihybrid material based on renewables: an efficient recyclable heterogeneous catalyst for C-C coupling and reduction reactions, *Chem. Asian J.*, **2016**, 11, 2406.
15. B.G. Bag, S. S. Dash, Self-assembly of sodium and potassium betulicates into hydro- and organo-gels: Entrapment and removal studies of fluorophores and synthesis of gel-gold nanoparticle hybrid materials, *RSC. Adv.*, **2016**, 6, 17290.
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18. B.G. Bag, N. Hasan, Study of Antioxidant Property of the Endosperm Extract of *Borassus flabellifer* (*Taal*) and its use in the green synthesis of Gold nanoparticles, *Prayogik Rasayan*, **2016**, 2, 11.

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43. K. Chaudhuri, SK N. Hasan, A. C. Barai, S. Das, T. Seal and B. G. Bag, Green synthesis and characterization of gold nanoparticles using *Bursera serrata* fruit extract, *Asian Journal of Pharmacy and Pharmacology*, **2019**; 5(2):332-343.
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Prof. Ajay Kumar Misra:

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Prof. Amiya Kumar Panda

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8. Paradoxical bactericidal effects of hydrophobic lung surfactant proteins and their peptide mimics using liposome molecular trojan, Journal of Oleo Science 67, (8) 1043-1057, Dutta K, Nag K, Booth V, Smyth E, Dueck H, Fritzen-Garcia M, Ghosh C, **Panda AK**. Journal of Oleo Science 67, (8) 1043-1057

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13. Dynamic Surface Properties of Mixed Monolayers of Polystyrene Micro- and Nanoparticles with DPPC” A. G. Bykov, G. Gochev, G. Loglio, R. Miller, **A. K. Panda**, B.A. Noskov, Colloids Surf. A. (DOI: <http://dx.doi.org/10.1016/j.colsurfa.2016.11.006>)
14. “Double Tailed Cystine Derivatives as Novel Substitutes of Phospholipids with Special Reference to Liposomes” Ravi Bhattarai, Tanushree Sutradhar, Biplab Roy, Pritam Guha, Priyam Chettri, Amit Kumar Mandal, Alexey G. Bykov, Alexander V. Akentiev, Boris A. Noskov, **Amiya Kumar Panda**, J. Phys. Chem. B. 120,10744-10756
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