CURRICULAM VITTE

Dr.S.K. Srivastava

Professor

Inorganic Materials and Nanocomposite Laboratory

Department of Chemistry

Indian Institute of Technology, Kharagpur-721302, India

E-mails: suneel@chem.iitkgp.ac.in sunil111954@yahoo.co.uk suneelchemkgp@gmail.com

Date of Birth: 11.11. 1954 **Family:** Poonam (wife), Mili (daughter), Indrajit (son)

Education

- B. Sc.(1974), Lucknow University, Lucknow
- M.Sc. (1976), Lucknow University, Lucknow
- D.I.I.T (1979), Indian Institute of Technology, Kharagpur
- Ph.D (1985), Indian Institute of Technology, Kharagpur

Professional Affiliations

- Visiting Professor (December 1, 2020 to November 31, 2021)
- Professor (2007 -Till date, Indian Institute of Technology, Kharagpur)
- Associate Professor (2002–07), Indian Institute of Technology, Kharagpur)
- Assistant Professor (1994–02), Indian Institute of Technology, Kharagpur
- Lecturer (1990-94), Indian Institute of Technology, Kharagpur
- Senior Research Assistant (1985-90), Indian Institute of Technology, Kharagpur

Awards and Recognitions

- DAAD Fellow
- Featured in a recent Stanford University report that has ranked the top 2 per cent scientists globally in 2020 and 2021.
- American Chemical Society awarded three year membership in recognition of the engagements with the Society's mission of service to the global community of Chemists
- Editorial Board Member**,** Scientitic Reports (Nature Publications)
- Editor, Journal of Nano Energy and Power Research, Amer. Sci.Publ., USA.
- Associate Editor, Nanoscience and Nanotechnoilogy Letter, Amer. Sci.Publ., USA.
- Associate Editor, Journal of Nanoscience and Nanotechnoilogy, Amer. Sci. Publ., USA
- Editorial Advisory Board Member, Recent Patents on Nanotechnology, Bentham Science Publishers Ltd. USA

Visits Abroad

- Visited IPF Dresden, Gemany as DAAD Fellow from 14.05.2013-16.07.2013.
- Visited Walther-Meissner-Institut derBayerischen Akademie der Wissenschaften, TechnischeUniversitätMünchen, Germany as DAAD fellow from 04.05.09 - 31.06.2009.
- Visited Department of Physics, University of Nantes, France as Visiting Scientist fellow from 15.5.2007- 15.07.2007.
- Visited Institute of Polymer Chemistry and Chemical Technology University of Karlsruhe, Germany as DAAD Fellow from 01.05.2006 -16.07.2006.
- Visited Department of Physics, University of Nantes, France as Visiting Scientist fellow from 06.06.2003 -16.07.2003.
- Visited Institute of Polymer Chemistry and Chemical Technology University of Karlsruhe, Germany as DAAD Fellow from 02.05.2002 - 30.07.2002.
- Visited University of Siegen, Department of Inorganic Chemistry, University of Siegen Germany as DAAD Fellow from 02.05.1999 - 22.7.1999.
- Visited University of Siegen, Department of Inorganic Chemistry, University of Siegen Germany as DAAD Fellow from 02.05.1994 - 30.07.1994.
- Visited Institute of Physical Chemistry and Electrochemistry, University of Karlsruhe, Germany as DAAD Fellow from 02.05.1988 - 11.07.1989.

Spécialisation: Physical Chemistry

Teaching

- Physical Chemistry at the B.Tech First year level, B.Sc and M.Sc levels
- High Pressure Science and Technology
- Adsorption and Catalysis
- Instrumental Methods of Analysis

Teaching Recoginition

- Best Teacher Awards in B.Tech First year Chemistry Laboratory in 2014-15.
- Best Teacher Awards in B.Tech First year Chemistry Laboratory in 2018-19.

Adminstrarive Experience

- Head, School of Energy Science: 2016-2019
- Professor In charge, Central Library, 2016-1019.
- Training and Placement, IIT Kharagpur, 2009-2012.

Memberships

- Life member of ‘Materials Research Society of India’,
- Life member of ‘Society of Polymer Science, India’
- Member, American Chemical Society

Research Interest

The research work deals mainly with the synthesis of 1 D nanostructure and thin films of II-VI and V-VI semiconductors and evaluation of their thermoelectric and optoelectronic properties. His research field also includes work on clay, layered double hydroxide, carbon nanotubes,grapheme and their uses as nanofiller in elastomers and plastics polymer nanocomposites. The other research interests are in the field of Zero, One and Two Dimensional Semiconducting and Magnetic Nanomaterials for their applications in Lithium Ion Battery, Supercapacitor,Hydrogen/Oxygen Evolution Reactions, and Environments.

Research Papers Published **188** (Journals) **24** (Book Chapters)

Highlighted Article *(Recognized as HOT ARTICLE by ACS among top 25 articles in 2015)**:*** Poulomi Roy and Suneel Kumar Srivastava, Nanostructured anode materials for lithium ion batteries, J. Mater. Chem. A,3, 2454-2484 (2015)

Highlighted Article*:* Poulomi Roy and Suneel Kumar Srivastava, Nanostructured Copper Sulfides: Synthesis, Properties and Applications, Cryst. Eng. Comm, 17, 7801-7815 (2015)

Invited contribute from the CGD's Virtual Special Issue - Structural Chemistry in India: Emerging Themes*:* A.K. Sahoo and S.K. Srivastava, Morpholine-4-Carbodithioate Se and Te Complex as Single Source Precursor for Synthesis of Se and Te with diverse morphologies, Crystal Growth and Design, 11, 1597-1606 (2011).

Citation and other Details: https://scholar.google.com/citations?user=cWzcKJoAAAAJ

Total number of Citation: 7041 **(**Up to 30.11.2021**)**

h-index: 46 *i-10 Index:* 127

ORCID ID: https://orcid.org/0000-0002-9297-2282

Ph.D Thesis Supervised

1. Soumi Dutta, Fabrication of sustainable nano adsorbents in removal of toxic pollutants from contaminated water, (2021)
2. Anurupa Maiti, Heteroatom Doped Metal Chalcogenide as a Superior Electrocatalyst in Acidic and Basic medium, (2021)
3. Kalyan Ghosh, Fabrication of Carbonaceous Nanocomposites of Transition Metal Sulfides/Oxides and their Applications in Energy and Preventing Environmental Pollution, (2021)
4. Rakesh Manna, Functionalized graphene based nanocomposites as flexible dielectric materials and microwave absorber, (2021).
5. Jayant Mondal, Synthesis of Nanostructured Materials for Optical Sensing and Electromagnetic Interference Shielding Applications, (2021)
6. Ayon Karmakar, Electrocatalytic Performance of Mixed Transition Metal based Nanostructured Materials in Alkaline Water Splitting (2020).

7. Kunal Manna, Role of Magnetic and Conducting Carbonaceous Nanomaterials in Fabrication of Polymer Nanocomposites in Electromagnetic Interference Shielding Application (2020).
8. Bhagabat Bhuyan, Fabrication of hybrid filler reinforced elastomer and elastomeric blend nanocomposites (2018).
9. Saheli Roy, 3D Hybrid filler reinforced thermoplastic polyurethane and thermoplastic polyurethane acrylonitrile butadiene blend rubber nanocomposites (2016).
10. B. Kartick, Fabrication and applications of nanomaterials in energy devices (2015).
11. R..Pannigrahi, Fabrication of core@shell structure of conducting polymer microspheres and their applications in environmental remediation (2015).
12. P.K. Sahoo, Nanostructured tungsten and its composites/alloys: Synthesis, characterization and densification (2014).
13. S. Senapati, Development and applications of ferromagnetic nanomaterials in environmental remediation (2014).
14. P.K. Sahu, Elementalal and binary semiconducting nanomaterials of diverse morphology:Synthesis and applications (2014).
15. M. Kotal, Preparation, characterization and properties of polyurethane nanocomposites and nanoblends (2012).
16. B.Pradhan, 2D and 3D nanofiller reinforced silicone rubber nanocomposites: Preparation, characterization and properties (2013).
17. Tapas Kuila, Preparation, characterization, and properties of ethylene vinyl acetate Nanocomposites (2009).
18. H. Acharya, Synthesis, characterization and properties of polyolefinic elastomer nanocomposites (2008).
19. J. Ota, One dimensional nanostructure of some group V-VI semiconductors: Synthesis, characterization and coating with conducting polymer (2008).
20. Poulomi Roy, Development and characterization of some nanodimensional Semiconducting metal chalcogenides (2007).
21. M. Pramanik, Studies on some layer type materials and their polymer Nanocomposites (2005).
22. T. Mandal, Synthesis and characterization of some layer type transition metal dichalcogenides and their intercalation compounds (2000).
23. D. Palit, Synthesis and Characterization of some layer type ternary and quaternary chalcogenides (1998).

Sponsored Projects undertaken a Principal Investigator

- CSIR: Development and applications of polyolefin and polyolefinic rubber hybrid filler nanocomposites (2011-2014) of 17.92 Lakhs
- DRDO: Development of polypyrrole/disinfectant nanocomposites for effective purification of water (2012-13) of Rs 5.15 Lakhs.
- DRDO: Development of silicon carbide supported graphene polymer nanocomposites for EMI shielding applications (2011-14) of Rs, 49.7 Lakhs.

- CSIR: Investigations on development and properties of poly-olefinic elastomer nanocomposites (2009-12) of Rs.13.5 Lakhs.
- DST: Development and characterization of semiconducting nanotubes/nanorods for thermoelectric applications (2007-10) of Rs. 17.9 Lakh.
- Epoxy reinforced inorganic material filled organic polymer composites in tribological applications (2007-10) of Rs.24.5 Lakh.
- CSIR: Development and characterization of semiconducting thin films (2005-08) of Rs.11.3 Lakh.
- MHRD: Development and characterization of nanomaterial as filler in polymer composites (2003-06) of Rs 20 Lakh.
- CSIR: Organic polymer-inorganic materials composites (2000-03) of Rs. 13.7 Lakh.

Books Published

- Poulomi Roy and Suneel Kumar Srivastava, Nanomaterials for Electrochemical Energy Storage Devices, Scrivener-Wiley Publishing, USA, 2019.
- Suneel Kumar Srivastava and Vikas Mittal, Hybrid Nanomaterials: Developments in Energy, Environmentsand Polymer Nanocomposites, Scrivener-Wiley Publishing, USA, (2017).

Book Chapters

1. Subhasis Shit, Suneel Kumar Srivastava, and Tapas Kuila, Noble metal-free bifunctional electrocatalysts for overall water splitting in alkaline medium in A*dvances in Material Research and Technology*, Springer, 2021 (Accepted).
2. S.K. Srivastava, Intrinsically Conducting Polymer Nanocomposites in Shielding of Electromagnetic Pollution, in *Nanostructured Materials for Environmental Applications*, Editors: Balakumar, Subramanian, Keller**,** Valérie, Shankar**,** M.V. (Eds.)Springer Nature 2021 page 172-222.
3. Suneel Kumar Srivastava, Rubber/Conducting Polymer Blends: A Review, *Conducting Polymer Composites*, edited by Vikas Mittal Central West Publishing, Australia, 2019 page 157-194.
4. Poulomi Roy, Shipra Raj, Suneel Kumar Srivastava, Nanostructured Metal Oxide, Hydroxide, and Chalcogenide for Supercapacitor Applications, Nanomaterials for Electrochemical Energy Storage Devices, Scrivener Publishing, 2019, page: 521-571.
5. Suneel Kumar Srivastava, Thermal properties of Rubber Nanocomposites Based on Carbon Nanofiller in *Carbon-Based Nanofillers and Their Rubber Nanocomposites, Fundamentals and Applications*, Srinivasarao Yaragalla Raghvendra Kumar Mishra Sabu Thomas Nandakumar Kalarikkal Hanna Maria ***(Editors),*** Elsevier, page 287-324, 2019.
6. Suneel Kumar Srivastava, Mechanical and dynamical mechanical properties of layered double hydroxide filled elastomer and elastomeric blend nanocomposites in *Layered Double Hydroxide Polymer Nanocomposites*, Sabu Thomas Saju Daniel (Editors), Elsevier, Page 111-137,2019.
7. Suneel KumarSrivastava, Barnali Ghosh (Pal), Metallic biomaterials for dental implant systems, inFundamental Biomaterials: Metals, Woodhead Publishing Series in *Biomaterials*, Preetha Balakrishnan, Sreekala M S, Sabu Thomas (Editors),Elsevier, Pages 111-137, 2018,

8. Suneel Kumar Srivastava and BhagabatBhuyan, Rubber nanocomposites for tire tread application, in *Rubber Nanocomposites and nanotextiles in automobiles*, Bireswar Banerjee (Ed.), Rapra Publication, (2018).
9. Suneel Kumar Srivastava and Vikas Mittal, Advanced nanostructured materials in electromagnetic shielding, in *Hybrid Nanomaterials: Developments in Energy, Environments and Polymer Nanocomposites*, S.K.Srivastava and V. Mittal (Eds), Scrivener-Wiley, page 241-320(2017).
10. Suneel Kumar Srivastava and Vikas Mittal, Recent developments on elastomer/hybridfillernanocomposites, in *Hybrid Nanomaterials, in Developments in Energy, EnvironmentsandPolymer Nanocomposites*, S.K.Srivastava and V. Mittal (Eds), Scrivener-Wiley Publishing, USA, page 199-240, (2017).
11. Suman Chhetri, Tapas Kuila, Suneel Kumar Srivastava, High performance hybrid filler reinforced epoxy nanocomposites, in *Hybrid Nanomaterials: Developments in Energy, Environmentsand Polymer Nanocomposites*, S.K.Srivastava and V. Mittal (Eds), Scrivener-Wiley Publishing, USA, page 371-422, (2017).
12. Suneel Kumar Srivastava, Metal oxide filled micro and nano natural rubber composites,in *Natural rubber materials, Volume 2: Composites and nanocomposites*, Sabu Thomas, Hanna J. Maria, Jithin P. Joy, Chin Han Chan and Laly A. Pothen (Eds.),,*RSC Polymer Chemistry Series*No. 8 (2014).
13. B. Pradhan, S.K. Srivastava, Novel silicone rubber/layered double hydroxide nanocomposite: preparation and characterization, in *Advanced Nanomaterials and Nanotechnology*, *Springer Proceeding in Physics*, 2013, 367-375.
14. S.K. Srivastava, and M. Kotal, Recent Advances on Preparation, Properties and Applications of Polyurethane Nanocomposites, in *Nanocomposites Series: Advanced Composites – Materials, Manufacturing and Engineering*, J. Paulo Davim and Constantinos A. Charitdis (Eds.), DE Gruyter, Germany, 33-93 (2013).
15. Suneel Kumar Srivastava and Tapas Kuila, Fire retardancy of elastomers and elastomernanocomposites, in *Polymer Green Flame Retardants: A Comprehensive Guide Additives and Their Applications*, edited by C.D Papaspyrides and Professor P. Kiliari (Eds.), Elsevier, 597-651 (2013).

Publications in Journals

2021

1. A Maiti, S. K Srivastava, Ru-Doped CuO/MoS_2 Nanostructures as Bifunctional Water-Splitting Electrocatalysts in Alkaline Media *ACS Applied Nano Materials* 2021, 4 (8), 7675-7685.
2. S Dutta, SK Srivastava, B Gupta, AK Gupta, Hollow Polyaniline Microsphere/MnO_2/Fe_3O_4 Nanocomposites in Adsorptive Removal of Toxic Dyes from Contaminated Water, *ACS Applied Materials & Interfaces*, 2021 13, 45, 54324–54338

3. K Ghosh, SK Srivastava, Fabrication of N-Doped Reduced Graphite oxide/$MnCo_2O_4$ Nanocomposites for Enhanced Microwave Absorption Performance, *Langmuir,* 2021, 37, 6, 2213–2226.
4. Manna, R.; Ghosh, k.; Srivastava, S. K.Functionalized Graphene/Nickel/Polyaniline Ternary Nanocomposites: Fabrication and Application as Electromagnetic Wave Absorber, *Langmuir* 2021, 37, 24, 7430–7441.
5. J Mondal, SK Srivastava, δ-MnO_2 Nanoflowers and Their Reduced Graphene Oxide Nanocomposites for Electromagnetic Interference Shielding, *ACS Applied Nano Materials* 2021, 3, 11048-11059.
6. J Mondal, SK Srivastava, Room-Temperature One-Step Synthesis of Silver/Reduced Graphene Oxide Nanocomposites as an Excellent Microwave Absorber, *Langmuir* 2021, 37, 45, 13409–13419
7. R. Manna, S,K.Srivastava, Reduced Graphene Oxide/Fe_3O_4/Polyaniline Ternary Composites as a Superior Microwave Absorber in the Shielding of Electromagnetic Pollution. *ACS Omega* 2021, *6*, 9164-9175.
8. R. Manna, K. Ghosh, S.K. Srivastava. Fabrication of High Dielectric Materials Through Selective Insertion of Functionalized Reduced Graphene Oxide on Hard Segment of Thermoplastic Polyurethane. *Journal of Nanoscience and Nanotechnology*, 2021, 21, 5569-05582.
9. K Ghosh, SK Srivastava, Enhanced Supercapacitor Performance and Electromagnetic Interference Shielding Effectiveness of CuS Quantum Dots Grown on Reduced Graphene Oxide Sheets, *ACS Omega*, 2021, 6, 7, 4582–4596.
10. Soumi Dutta, Bramha Gupta, Suneel Kumar Srivastava, Ashok Kumar Gupta, Recent advances on the removal of dyes from wastewater using various adsorbents: A critical review, *Materials Advances*, 2021, *2*, 4497– 4531,
11. Parida, S.; Parida, R.; Parida, B.; Srivastava, S. K.; Nayak, N. C. Exfoliated Graphite Nanoplatelet (xGnP) Filled EVA/EOC Blends Nanocomposites for Efficient Microwave Absorption in the S-band (2-4GHz), *Compos. Sci. and Technol*. 2021, *207*, 108716.
12. S Dutta, SK Srivastava, AK Gupta, Polypyrrole–polyaniline copolymer coated green rice husk ash as an effective adsorbent for the removal of hexavalent chromium from contaminated water, *Materials Advances* 2021, 2 (7), 2431-2443.

2020

1. K. Ghosh, S.K. Srivastava, Superior Supercapacitor Performance of Bi_2S_3 Nanorod/Reduced Graphene Oxide Composites, *Dalton Trans*. 2020, 49, 16993-17004.
2. J. Mondal, S.K. Srivastava, δ-MnO_2 Nanoflowers and Their Reduced Graphene Oxide Nanocomposites for Electromagnetic Interference Shielding, *ACS Appl. Nano Mate*r. 2020, 3 11048-11059.

3. A Karmakar, SK Srivastava, Transition-Metal-Substituted Cobalt Carbonate Hydroxide Nanostructures as Electrocatalysts in Alkaline Oxygen Evolution Reaction, *ACS Applied Energy Materi*als 2020, 3, 7335-7344
4. S Dutta, K Manna, SK Srivastava, AK Gupta, MK Yadav, Hollow Polyaniline Microsphere/Fe_3O_4 Nanocomposite as an Effective Adsorbent for Removal of Arsenic from Water, *Scientific reports* 2020, 10, 1-14
5. A Maiti, SK Srivastava, N, Ru Codoped Pellet Drum Bundle-Like Sb_2S_3: An Efficient Hydrogen Evolution Reaction and Hydrogen Oxidation Reaction Electrocatalyst in Alkaline Medium, *ACS Applied Materials &* interfaces 2020, 12), 7057-7070.
6. K Manna, SK Srivastava, Tuning of Shells in Trilaminar Core@ Shell Nanocomposites in Controlling Electromagnetic Interference through Switching of the Shielding Mechanism, *Langmuir* 2020, 36, 4519-4531.
7. A Roy, SK Srivastava, SL Shrivastava, AK Mandal, Hierarchical Assembly of Nanodimensional Silver–Silver Oxide Physical Gels Controlling Nosocomial Infections, *ACS Omega* 2020, 5, 50, 32617–32631.

2019

1. P Murugaiyan, A Mitra, AK Panda, AS Kumar, RK Roy, K Manna, Electromagnetic interference shielding effectiveness of amorphous and nanocomposite soft magnetic ribbons, *Physica B: Condensed Matter* **2019**.568, 13-17,
2. K. Ghosh, SK Srivastava, S Puravankara, Nanostructured ZrO_2/MWCNT Hybrid Materials: Fabrication, Characterization and Applications in Shielding of Electromagnetic Pollution Journal of nanoscience and nanotechnology 2019, 19 (6), 3367-3375.
3. S Chhetri, NC Adak, P Samanta, NC Murmu, SK Srivastava, T Kuila, Synergistic effect of Fe_3O_4 anchored N-doped rGO hybrid on mechanical, thermal and electromagnetic shielding properties of epoxy composites, Composites Part B: Engineering **2019**,166, 371-3813,
4. S Raj, SK Srivastava, P Kar, P Roy, In situ growth of Co_3O_4 nanoflakes on reduced graphene oxide-wrapped Ni-foam as high performance asymmetric supercapacitor, ElectrochimicaActa 2019,302, 327-337,
5. B Bhuyan, SK Srivastava, J Pionteck, Multiwalled carbon nanotubes/Hectorite hybrid reinforced styrene butadiene rubber nanocomposite: Preparation and properties, Polymer-Plastics Technology and Materials 2019 58 (5), 537-546..
6. SK Srivastava, YK Mishra, Nanocarbon reinforced rubber nanocomposites: detailed insights about mechanical, dynamical mechanical properties, Payne, and Mullin effects, *Nanomaterials* 2018 8 (11), 945,

2018

1. S.K. Srivastava, Y.K. Mishra, Nanocarbon reinforced rubber nanocomposites: Detailed insights about mechanical, dynamical mechanical properties, Payne, and Mullin effects, *Nanomaterials* 2018, 8, 945/1-945/56.

2. V. Sharma, K. Manna, S.K. Srivastava, A. Chandra, Hollow nanostructures of metal oxides as efficient absorbers for electromagnetic interference shielding, *Journal of Physics D: Applied Physics* 52 (1), 015301
3. AnurupaMaiti, Suneel Kumar Srivastava, Sulphur edge and vacancy assisted nitrogen-phosphorus co-doped exfoliated tungsten disulfide: a superior electrocatalyst in hydrogen evolution reaction, *J. Mater. Chem. A* 2018.DOI: 10.1039/c8ta06918b
4. K Manna, SK Srivastava, Contrasting Role of Defect-Induced Carbon Nanotubes in Electromagnetic Interference Shielding, *The Journal of Physical Chemistry C*, 2018, 122,19913-19920.
5. B Bhuyan, SK Srivastava, S Puravankara, V Mittal, Magnesium Aluminium Layered Double Hydroxide Assisted Dispersion of Multiwalled Carbon Nanotubes for Enhanced Reinforcement of Ethylene-co-Vinyl Acetate Matrix, *Macromolecular Research*, 2018, 26, 868-871.
6. J Mondal, SK Srivastava, Green Synthesis of Carbon Dot Weak Gel from Pear Juice: Optical Properties and Sensing Application, *ChemistrySelec*t, 2018, 3, 8444-8457.
7. B Bhuyan, SK Srivastava, J Pionteck, Multiwalled Carbon Nanotubes/Hectorite Hybrid Reinforced Styrene Butadiene Rubber Nanocomposite: Preparation and Properties, *Polymer-Plastics Technology and Engineering*, 2018, https://doi.org/10.1080/03602559.2018.1493117.
8. B Bhuyan, A Roy, SK Srivastava, V Mittal, Multiwalled carbon nanotube/montmorillonite hybrid filled ethylene-co-vinyl acetate nanocomposites with enhanced mechanical properties, thermal stability, and dielectric response, *Polymer Engineering & Science*, 2018, 58, 1155-1165.
9. B Bhuyan, SK Srivastava, V Mittal, Ethylene-co-Vinyl Acetate/MWCNTs/Hectorite Elastomeric Nanocomposites: Characterization and Electrical Properties,*Journal of Nanoscience and Nanotechnology*, 2018, 18, 4057-4064.
10. S Raj, S Kumar, SK Srivastava, P Kar, P Roy, Deposition of Tin Oxide Thin Films by Successive Ionic Layer Adsorption Reaction Method and Its Characterization, *Journal of Nanoscience and Nanotechnology*, 2018, 18, 2569-2575.
11. RitwikPanigrahi, Suneel Kumar Srivastava, Jürgen Pionteck, Fabrication of Elastomer Blends Involving Core (Polystyrene)@Shell (Polyaniline) Approach, their Characterization and Applications in Electromagnetic Shielding, *Rubber Chemistry and Technology,* 2018), 91 (1), 97–119.
12. K Ghosh, S K Srivastava, S. Puravankara, Nanostructured ZrO_2/MWCNT Hybrid Materials: Fabrication, Characterization and Applications in Shielding of Electromagnetic Pollution, J Nanosci. Nanotechnol. 2019 Jun 1;19(6):3367-3375.

2017

1. R Manna, SK Srivastava, Fabrication of functionalized graphene filled carboxylated nitrile rubber nanocomposites as flexible dielectric materials, Materials Chemistry Frontiers, **2017,** 1, 780-788

2. B. Bhuyan1 and S. K. Srivastava, J. Pionteck2MWCNT/Hectorite hybrid filled acrylonitrile butadiene rubber/ethylene-co-vinyl acetate blend nanocomposites preparation and properties, J Polym Res (2017) 24: 150.

2016

1. S. K Srivastava, B Kartick, S Choudhury, M Stamm, Thermally fabricated MoS 2-graphene hybrids as high performance anode in lithium ion battery, Materials Chemistry and Physics 183, 383-391.
2. R. Pannigrahi, S.K. Srivastava and J. Pionteck, Polarity directed expulsion of polystyrene from polystyrene@polyaniline in fabrication of conducting blends of diverse rubbers, Rubber Chemistry and Technology, (Under consideration), 2016.
3. K Manna, S.K Srivastava, V Mittal, Role of enhanced hydrogen bonding of selectively reduced graphite oxide in fabrication of poly (vinyl alcohol) nanocomposites inwater as EMI shielding material, J. Phys. Chem. C 120, 2016, 17011-17023,
4. S Roy, SK Srivastava, V Mittal, Noncovalent assembly of carbon nanofiber–layereddouble hydroxide as a reinforcing hybrid filler in thermoplastic polyurethane–nitrilebutadiene rubber blends, J.Appl. Polym. Sci. 133, 2016, DOI: 10.1002/app.43470.
5. S. Chhetri, P. Samanta, NC Murmu, S.K. Srivastava, T. Kuila, Effect of dodecyl aminefunctionalized graphene on the mechanical and thermal properties of epoxy based composites, Polym. Engg Sci., 2016, DOI:10.1002/pen.24355.
6. Roy, S.K. Srivastava, V. Mittal, Facile noncovalent assembly of MWCNT-LDH and CNF-LDH as reinforcing hybrid fillers in thermoplastic polyurethane/nitrile butadiene rubberblends, J. Poly. Res. 23,2016, 1-11.
7. S Roy, S.K. Srivastava, J. Pionteck, V. Mittal, Assembly of layered double hydroxide onmulti-walled carbon nanotubes as reinforcing hybrid nanofiller in thermoplasticpolyurethane/nitrile butadiene rubber blends, Polym. Internat. 65, 2016, 93-101.
8. H Acharya, S.K. Srivastava, Mechanical, thermo-mechanical, thermal, and swellingproperties of EPDM-organically modified mesoporous silica nanocomposites,Polym compos. Compos.DOI:10.1002/pen.24355.
9. S.K. Srivastava, B. Kartick, S. Choudhury, M. Stamm, Thermally fabricated MoS_2-graphenehybrids as high performance anode in lithium ion battery,Mater. Chem. Phys, 2016.http://www.sciencedirect.com/science/article/pii/S0254058416306447.
10. B Kartick, S.K. Srivastava, A Chandra, Graphene/Nickel Nanofiber Hybrids for Catalyticand Microbial Fuel Cell Applications, J. Nanosci. Nanotechnol.,16, 2016, 303-311.
11. Shipra Raj, Suneel Kumar Srivastava, PradipKar and Poulomi Roy, Three-dimensional $NiCo_2O_4$/$NiCo_2S_4$ hybrid on Ni-foam as high-performance supercapacitor electrode, RSC Adv (Accepted for publication), 2016.
12. Divya, R Pongilat, T Kuila, K Nallathamby, S.K. Srivastava, P Roy, Spinel-Structured NiCo2O4 Nanorods as energy efficient electrode for supercapacitor and lithium ion battery applications, J. Nanosci. Nanotechnol.16, 2016, 9761-9770.

13. AK Gupta, PS Ghosal, SK Srivastava, Modeling and Optimization of Defluoridation by Calcined Ca-Al-(NO 3)-LDH Using Response Surface Methodology and Artificial Neural Network Combined with Experimental Design, Journal of Hazardous, Toxic, and Radioactive Waste, 2016.

2015

1. RitwikPanigrahi and Suneel K. Srivastava, Trapping of microwave radiation in hollowpolypyrrole microsphere through enhanced internal reflection: A novel approach, Scientific Reports (Nature Publication) 5, 7638, (2015), doi:10.1038/srep07638.
2. Poulomi Roy and Suneel Kumar Srivastava, Nanostructured anode materials for lithium ionbatteries, J. Mater. Chem. A,3, 2454-2484 (2015).
3. P. Swain, Suneel K. Srivastava and Sanjeev K. Srivastava, Quantam phase transition andFermi liquid behavior in $Pd_{1-x}Ni_x$nanoalloys,Phys. Rev. B, 91, 045401 (2015).
4. R.Panigrahi, S. K. Srivastava, Hollow polyaniline microsphere/Ag nanocomposite in sugarsensing and electromagnetic shielding, Materials Research Bulletin, 64, 33-41 (2015).
5. S.K. Srivastava and J. Pionteck, Recent advances on preparation, structure, properties and application of graphite oxide,J. Nanosci. Nanotechnol.15, 1984-2000 (2015).
6. Poulomi Roy and Suneel Kumar Srivastava, Nanostructured Copper Sulfides: Synthesis,Properties and Applications, Cryst. Eng. Comm, 17, 7801-7815 (2015).
7. Saheli Roy, Suneel Kumar Srivastava, Jürgen Pionteck and Vikas Mittal, Mechanically andthermally enhanced multiwalled carbon nanotube-graphene hybrid filled thermoplastic polyurethane nanocomposites, Macromole. Mater.Engg.300, 346-35 (2015).
8. B. Kartick, S. Roy, S.K. Srivastava et al., Synthesis and characterization of Poly(N-vinylcarbazole)/Graphene Nnanocomposites,J.Nanosci. Nanotechnol. 15, 3733-3742(2015).
9. Prasanta Kumar Sahoo, Suneel Kumar Srivastava, Sarika Srinivas Kalyan Kamal and LoganathanDurai, Consolidation behavior of W–20–40 wt.% Mo nanoalloys synthesized by thermal decomposition method, Int. Journal of Refractory Metals andHard Materials 51,124–129 (2015).
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Student Activities at the Institute Level

- Warden, R.P. Hall of Residence, 2009-2012
- Warden, R.P. Hall of Residence, 2006- 2009
- Warden, Patel Hall of Residence, 2002-05
- Assistant Warden, R.P. Hall of Residence, 1997-2000
- Assistant Warden, Azad Hall of Residence, 1992-95
- Treasurer, Technalogy Alumani Association, 1992-1995