Facile Preparation of Biocompatible and Transparent Silica Aerogels as Ionogels Using Choline Dihydrogen Phosphate Ionic Liquid

SM Kamal Mohamed, R Murali Sankar, MS Kiran, SN Jaisankar, B Milow, ... Applied Sciences 11 (1), 206,2021

Bromo-substituted blocked hexamethylene diisocyanate adduct: synthesis, characterization and application toward polyurethane coating

S Jana, P Ramar, D Samanta, SN Jaisankar Journal of Macromolecular Science, Part A, 1-11,2020

Viscoelastic, thermal, and morphological properties of nanocomposites based on modified PVA using a twin-screw melt extrusion process

B Rajeswari, N Malarvizhi, D Prakash, SN Jaisankar Journal of Thermoplastic Composite Materials 33 (11), 1555-1568 3,2020

Interplay between surface chemistry and osteogenic behaviour of sulphate substituted nanohydroxyapatite

G Radha, B Venkatesan, SN Jaisankar, P Rajashree, S Balakumar Materials Science and Engineering: C, 111617,2020

Multifunctional properties of acetaminophen immobilized polymer nanohybrid composites A Murali, SC Ramkumar, N Haridharan, S Mohana, D Samanta, ... SN Applied Sciences 2 (7), 1-11,2020

Nanoconjugates of methacrylic polymers: Synthesis, characterization, and immobilization to leather

VG Ayyappan, D Prakash, SN Jaisankar, N Sadhukhan, MS Alam, ... Journal of Applied Polymer Science 137 (18), 48627,2020

Copper (0) Mediated Single Electron Transfer-Living Radical Polymerization of Methyl Methacrylate: Functionalized Graphene as a Convenient Tool for Radical Initiator A Murali, S Sampath, B Appukutti Achuthan, M Sakar, S Chandrasekaran, ... Polymers 12 (4), 8742,2020

Biodegradable polyurethane foam as shoe insole to reduce footwear waste: Optimization by morphological physicochemical and mechanical properties

M Mukherjee, SA Gurusamy-Thangavelu, DK Chelike, A Alagumalai, ... Applied Surface Science 499, 1439666,2020

Strong hydrogen bonding wide bandgap single crystal for optical and electronic applications IP Bincy, SN Jaisankar, MP Pachamuthu, D Santhanaraj, D Prakash, ... Optics & Laser Technology 120, 1057102,2019

Enhanced mechanical, thermal and adhesion properties of polysilsesquioxane spheres reinforced epoxy nanocomposite adhesives

V Anoop, S Sankaraiah, SN Jaisankar, S Chakraborty, NL Mary The Journal of Adhesion 2,2019

Studies on nonlinear optical properties of a mixture of 4-nitroaniline-picric acid (2/1)

KV Karthikeyan, S Anandhi, V Ramkumar, TS Shyju, SN Jaisankar, ...

Materials Research Express 6 (7), 075105,2019

Mechanical, dielectric, and thermal properties of polydimethylsiloxane/polysilsesquioxane nanocomposite for sealant application

V Anoop, S Subramani, SN Jaisankar, C Sohini, NL Mary Journal of Applied Polymer Science 136 (12), 472286, 2019

Structure, growth and characterization of a new naphthalene family crystal for fluorescence and third order nonlinear optical applications

IP Bincy, T Srinivasan, SN Jaisankar, V Ramkumar Solid State Sciences 89, 85-923,2019

Thermoplastic poly (urethane-thiourethane) triblock copolymers with SWCNTs composite

D Prakash, SN Jaisankar

Diamond and Related Materials 93, 34-411,2019

Immobilization of quaternized polymers on bacterial cellulose by different grafting techniques

P Ramar, S Jana, S Chatterjee, SN Jaisankar, D Samanta New Journal of Chemistry 43 (40), 15935-15945 22019

Studies on biodegradable polyurethane-SWCNTs nanocomposite films by covalent approach:

Physicochemical, electric and mechanical properties

SAG Thangavelu, A Murali, M Sharanya, SN Jaisankar, AB Mandal Applied Surface Science 449, 745-754 102018

Synthesis of Fluorophore Decorated Single-Walled Carbon Nanotubes for In-Vitro Cytocompatibility

A Murali, N Haridharan, PS Babu, S Jayaveni, SN Jaisankar Journal of nanoscience and nanotechnology 18 (2), 959-966 22018

Microcapsules from diverse polyfunctional materials: synergistic interactions for a sharp response to pH changes

N Pentela, N Duraipandy, N Sainath, T Parandhaman, MS Kiran, SK Das, ... New Journal of Chemistry 42 (11), 8366-8373 32018

Polylactic acid (PLA) biocomposites filled with waste leather buff (WLB)

T Ambone, S Joseph, E Deenadayalan, S Mishra, S Jaisankar, ... Journal of Polymers and the Environment 25 (4), 1099-1109 192017

Processing and characterization of waste leather based polycaprolactone biocomposites S Joseph, TS Ambone, AV Salvekar, SN Jaisankar, P Saravanan, ...

Polymer Composites 38 (12), 2889-2897 52017

Properties of polyurethane nanocomposite filaments for conductive textile applications B Mariappan, SN Jaisankar Journal of Thermoplastic Composite Materials 30 (10), 1361-1372 62017

Carbon nanotube reinforced polymer-stabilized liquid crystal device: Lowered and thermally invariant threshold with accelerated dynamics S Krishna Prasad, M Baral, A Murali, SN Jaisankar ACS Applied Materials & Interfaces 9 (31), 26622-26629

112017

Synthesis and characterization of nitrogen-rich azo-linked conjugated polymer materials D Prakash, A Murali, SN Jaisankar International Journal of Polymer Analysis and Characterization 22 (5), 455-462 2017

'Click'polymer of carbon nanotubes for superhydrophobic glass and leather M Krishnamurthy, P Murugan, A Murali, SN Jaisankar, AB Mandal, ... Green Materials 5 (2), 46-52 42017

Influences of functionalized nanoclays on morphology and mechanical properties of polyvinyl alcohol-based composites by twin-screw extruder B Rajeswari, N Malarvizhi, E Deenadayalan, SN Jaisankar Polymer-Plastics Technology and Engineering 56 (8), 883-888 32017

Polymer stabilized liquid crystal compositions with tethered carbon nanotubes for different kinds of display devices that exhibits reduction in threshold voltages SK Prasad, M Baral, SN Jaisankar IN Patent A 20,180,727 2017

Polycarbodiimide and polyurethane cross-linkers for leather finishing SC RAMKUMAR, A MURALI, G PREETHI, B CHANDRASEKARAN, ... Revista de Pielarie Incaltaminte 17 (4), 181 12017

"Click" polymerization: A convenient strategy to prepare designer fullerene materials M Krishnamurthy, K Krishnamoorthy, A Arulkashmir, V Raghavendra, ... Materials & Design 108, 34-41 92016

Studies On Biocompatible Surface-Active Silica Aerogel and Polyurethane- Siloxane Cross-Linked Structures for Various Surfaces

K Seeni Meera, R Murali Sankar, SN Jaisankar, A Baran Mandal Encyclopedia of Biocolloid and Biointerface Science 2V Set, 1-16

12016

Electric field induced formation of one-dimensional bismuth ferrite (BiFeO3) nanostructures in electrospinning process

M Sakar, S Balakumar, P Saravanan, SN Jaisankar Materials & Design 94, 487-495 262016

Synthesis Of Water Based Polyurethane / Acrylic Hybrid Latexes For Coating Applications CM Sellamuthu N. Jaisankar, Sanjeev Gupta, Vijayalakshmi Narasimhan International conference on materials science and technology 2016

Synthesis and Characterization of triphenylpyridine containing azo-linked polymer materials SNJ Dhanasekaran Prakash

International conference on materials science and technology 2016

2016

Melt processing of polyvinyl alcohol /Amine modified bentonite clay composites: Spectral, thermal and mechanical properties

SN B. Rajeswari, N. Malarvizhi

Forth International Conference on Frontiers in Nanoscience and Technology ...

2016

Synthesis and properties of azo-linked polymeric materials

SNJ D. Prakash

Forth International Conference on Frontiers in Nanoscience and Technology ...

2016

Encyclopedia of Nanoscience and Nanotechnology Polymer nanocomposites via functionalized single-walled carbon nanotubes

SNJ Adhigan Murali, Dhanasekaran Prakash, Debasis Samanta

ISBN: 1-58883-001-2 10, 1-120

2016

**OOFS** 

KS Meera, RM Sankar, SN Jaisankar, AB Mandal

2016

Synthesis of graphene-graft-methyl methacrylate copolymer via graft from approach

SNJ Adhigan Murali

4th Nano Today Conference

2015

Morphology and Thermal Properties of Thermosetting Polyurethane/Single-Walled Carbon Nanotube Composites

N Malarvizhi, B Rajeswari, D Prakash, SN Jaisankar Graphene 3 (1), 65-71

2015

Influence of Styrene Maleic Anhydride Compatibilizer on the Properties of Polyurethane Carbon Nanocomposites

B Mariappan, SN Jaisankar Advanced Composites Letters 24 (6), 096369351502400603 2015

Effect of hydroxyl functionalized single-walled carbon nanotube on their thermal, electrical and mechanical properties of polyurethane composite

SNJ Adhigan Murali, Senthil A. Gurusamy-Thangavelu International Conference on Direct Digital Manufacturing and Polymers ... 2015

Silver plasmons sensitized photocatalytic activity of bismuth ferrite (BiFeO3) nanoparticles S Mohan, B Sivakumar, J Mohan, B Subramanian, SN Jaisankar JOURNAL OF THE INDIAN CHEMICAL SOCIETY 92 (5), 732-735 2015

Single-walled carbon nanotubes decorated with Polypyrrole-TiO2 nanocomposites G Radha, D Samanta, S Balakumar, AB Mandal, SN Jaisankar Journal of nanoscience and nanotechnology 15 (5), 3879-3886 42015

Immobilization of ruthenium benzylidene on thermoresponsive polymer: Methodology and application

N Pentela, P Murugan, SN Jaisankar, D Samanta, AB Mandal Journal of Organometallic Chemistry 778, 42-46 132015

Water based polymer nanoclays composite coating rheology for leather applications SN Jaisankar, D Samanta, P Saravanan, C Muralidharan Proceedings of the 33rd IULTCS Congress: International Union of Leather ... 12015

Enhancement of the physicochemical properties of polyurethane–perovskite nanocomposites via addition of nickel titanate nanoparticles

A Murali, SA Gurusamy-Thangavelu, SN Jaisankar, AB Mandal RSC advances 5 (124), 102488-102494 92015

Synthesis and characterization of semi interpenetrating polymer network based on single-walled carbon nanotubes

A Jayakumar, N Malarvizhi, B Rajeswari, A Murali, D Samanta, ... Adv. Mater. Lett 6 (9), 790-794 52015

Controlled decoration of the surface with macromolecules: polymerization on a self-assembled monolayer (SAM)

P Murugan, M Krishnamurthy, SN Jaisankar, D Samanta, AB Mandal Chemical Society Reviews 44 (10), 3212-3243 502015

Single electron transfer-living radical polymerization as a tool for the synthesis of poly(methyl methacrylate) onto carbon nanotubes: A mimic to bone cement ABMSNJ A. Murali, N. Haridharan

Royal Society Chemistry-India roadshow and symposia series, at IIT Madras 2014

Single-electron transfer living radical copolymerization of SWCNT-g-PMMA via graft from approach

SN Jaisankar, N Haridharan, A Murali, P Sergii, M Špírková, AB Mandal, ... Polymer 55 (13), 2959-2966

112014

Ionomer covalent functionalization of single-walled carbon nanotubes by radical polymerization of zirconium acrylate

SN Jaisankar, DJ Nelson, R Kumar, AB Mandal AIChE Journal 60 (3), 820-828 32014

Nanostructured  $Bi_{(1-x)} Gd_{(x)} FeO_3$ —a multiferroic photocatalyst on its sunlight driven photocatalytic activity

S Mohan, B Subramanian, I Bhaumik, PK Gupta, SN Jaisankar 2014

Morphology and Electrical conductivity of compatibilized thermoplastic polyurethane/single-walled carbon nanotubes

SNJ Bharathi M., V. Rajappa Procedia Eng. 2014 93, 59-65, 2014

Studies on Inter and Intra Molecular Hydrogen Bonding and Morphologies of Single-walled Carbon Nanotubes/Polyurethane-amide

SNJ R. Murali Sankar, K. Seeni Meera, D. Samanta, D. Paradesi, A. B. Mandal Procedia Eng. 93, 43-48, 2014.

2014

Studies on inter and intra molecular hydrogen bonding and morphologies of single-walled carbon nanotubes/polyurethane-amide

RM Sankar, KMS Meera, D Samanta, D Paradesi, AB Mandal, ... Procedia Engineering 93, 43-48
12014

Morphology and electrical conductivity of compatibilized thermoplastic polyurethane/single-walled carbon nanotube composites

B Mariappan, V Rajappa, SN Jaisankar Procedia Engineering 93, 59-65 32014

Augmentation of properties on sparingly loaded nanocomposites via functionalized single-walled carbon nanotubes using a covalent approach

A Murali, SA Gurusamy-Thangavelu, SN Jaisankar, AB Mandal RSC advances 4 (108), 62947-62950 132014

Ionic polyurethane materials for enhanced platelets adhesion and biocompatibility PS Babu, PK Gayathri, SN Jaisankar J. Pharm. Biol. Sci. 9, 69-76 12014

A novel fuel cell membrane with high efficiency D Paradesi, D Samanta, AB Mandal, SN Jaisankar RSC Advances 4 (50), 26193-26200 112014

The influence of applied silica nanoparticles on a bio-renewable castor oil based polyurethane nanocomposite and its physicochemical properties KMS Meera, RM Sankar, J Paul, SN Jaisankar, AB Mandal Physical Chemistry Chemical Physics 16 (20), 9276-9288 642014

Nanostructured Bi (1- x) Gd (x) FeO 3-a multiferroic photocatalyst on its sunlight driven photocatalytic activity
S Mohan, B Subramanian, I Bhaumik, PK Gupta, SN Jaisankar
RSC Advances 4 (32), 16871-16878
572014