

Sarat K Swain

List of Publications by Citations

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113
papers

1,875
citations

25
h-index

36
g-index

113
ext. papers

2,145
ext. citations

4
avg, IF

5.68
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 113 | Effect of ultrasound on HDPE/clay nanocomposites: Rheology, structure and properties. <i>Polymer</i> , 2007 , 48, 281-289 | 3.9 | 119 |
| 112 | Anticorrosion Performance of Three-Dimensional Hierarchical PANI@BN Nanohybrids. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 2921-2931 | 3.9 | 70 |
| 111 | PA6/clay nanocomposites by continuous sonication process. <i>Journal of Applied Polymer Science</i> , 2009 , 114, 2378-2387 | 2.9 | 60 |
| 110 | Phenylboronic acid functionalized reduced graphene oxide based fluorescence nano sensor for glucose sensing. <i>Materials Science and Engineering C</i> , 2016 , 58, 103-9 | 8.3 | 58 |
| 109 | Nano silver decorated polyacrylamide/dextran nanohydrogels hybrid composites for drug delivery applications. <i>Materials Science and Engineering C</i> , 2018 , 85, 130-141 | 8.3 | 57 |
| 108 | Carbon quantum dot tailored calcium alginate hydrogel for pH responsive controlled delivery of vancomycin. <i>European Journal of Pharmaceutical Sciences</i> , 2017 , 109, 359-371 | 5.1 | 51 |
| 107 | Synthesis and Characterization of Chitosan/Boron Nitride Composites. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 2753-2757 | 3.8 | 47 |
| 106 | Synthesis of gas barrier starch by dispersion of functionalized multiwalled carbon nanotubes. <i>Carbohydrate Polymers</i> , 2013 , 94, 663-8 | 10.3 | 47 |
| 105 | Soy Protein/Clay Bionanocomposites as Ideal Packaging Materials. <i>Polymer-Plastics Technology and Engineering</i> , 2012 , 51, 1282-1287 | | 45 |
| 104 | Cellulose nanobiocomposites with reinforcement of boron nitride: study of thermal, oxygen barrier and chemical resistant properties. <i>Carbohydrate Polymers</i> , 2013 , 95, 728-32 | 10.3 | 39 |
| 103 | Expanded graphite as a filler for epoxy matrix composites to improve their thermal, mechanical and electrical properties. <i>New Carbon Materials</i> , 2015 , 30, 432-437 | 4.4 | 39 |
| 102 | Nano silver imprinted polyvinyl alcohol nanocomposite thin films for Hg ²⁺ sensor. <i>Sensors and Actuators B: Chemical</i> , 2017 , 246, 96-107 | 8.5 | 38 |
| 101 | Nano gold decorated reduced graphene oxide wrapped polymethylmethacrylate for supercapacitor applications. <i>RSC Advances</i> , 2017 , 7, 2137-2150 | 3.7 | 37 |
| 100 | Effect of nanoboron nitride on the physical and chemical properties of soy protein. <i>Composites Science and Technology</i> , 2013 , 84, 39-43 | 8.6 | 37 |
| 99 | Ultrasound aided extrusion process for preparation of polyolefin/clay nanocomposites. <i>Polymer Engineering and Science</i> , 2008 , 48, 1584-1591 | 2.3 | 35 |
| 98 | Synthesis of poly(butyl acrylate)/sodium silicate nanocomposite fire retardant. <i>European Polymer Journal</i> , 2008 , 44, 3522-3528 | 5.2 | 33 |
| 97 | Synthesis of thermal and chemical resistant oxygen barrier starch with reinforcement of nano silicon carbide. <i>Carbohydrate Polymers</i> , 2013 , 97, 758-63 | 10.3 | 30 |

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|----|--|------|----|
| 96 | Effect of nanoclay on morphological, thermal, and barrier properties of albumin bovine. <i>Polymer Composites</i> , 2012 , 33, 2201-2206 | 3 | 29 |
| 95 | Graphene quantum dot decorated magnetic graphene oxide filled polyvinyl alcohol hybrid hydrogel for removal of dye pollutants. <i>Journal of Molecular Liquids</i> , 2020 , 302, 112591 | 6 | 28 |
| 94 | Barrier properties of nano silicon carbide designed chitosan nanocomposites. <i>Carbohydrate Polymers</i> , 2015 , 134, 60-5 | 10.3 | 27 |
| 93 | Effect of chemically modified date palm leaf fiber on mechanical, thermal and rheological properties of polyvinylpyrrolidone. <i>Fibers and Polymers</i> , 2014 , 15, 1062-1070 | 2 | 27 |
| 92 | Effective mechanical properties of polyvinylalcohol biocomposites with reinforcement of date palm leaf fibers. <i>Polymer Composites</i> , 2013 , 34, 959-966 | 3 | 27 |
| 91 | Synthesis of soy protein/polyacrylamide nanocomposite hydrogels for delivery of ciprofloxacin drug. <i>Materials Chemistry and Physics</i> , 2019 , 234, 378-389 | 4.4 | 26 |
| 90 | Carbon Nanomaterial Reinforced Epoxy Composites: A Review. <i>Polymer-Plastics Technology and Engineering</i> , 2018 , 57, 1-16 | | 26 |
| 89 | Thermal and Oxygen Barrier Properties of Chitosan Bionanocomposites by Reinforcement of Calcium Carbonate Nanopowder. <i>Journal of Materials Science and Technology</i> , 2014 , 30, 791-795 | 9.1 | 26 |
| 88 | Three-Dimensional Rice Straw-Structured Magnetic Nanoclay-Decorated Tripolymeric Nanohydrogels as Superadsorbent of Dye Pollutants. <i>ACS Applied Nano Materials</i> , 2018 , 1, 1188-1203 | 5.6 | 24 |
| 87 | Release of ciprofloxacin drugs by nano gold embedded cellulose grafted polyacrylamide hybrid nanocomposite hydrogels. <i>International Journal of Biological Macromolecules</i> , 2019 , 126, 765-775 | 7.9 | 24 |
| 86 | Preparation of Starch/PVA/CaCO ₃ Nanobiocomposite Films: Study of Fire Retardant, Thermal Resistant, Gas Barrier and Biodegradable Properties. <i>Polymer-Plastics Technology and Engineering</i> , 2014 , 53, 1664-1670 | | 22 |
| 85 | Synthesis and characterization of conducting gas barrier polyacrylonitrile/graphite nanocomposites. <i>Polymer Composites</i> , 2011 , 32, 1336-1342 | 3 | 22 |
| 84 | Swelling study of superabsorbent PAA-co-PAM/clay nanohydrogel. <i>Journal of Applied Polymer Science</i> , 2011 , 120, 1533-1538 | 2.9 | 22 |
| 83 | Nano silver embedded starch hybrid graphene oxide sandwiched poly(ethylmethacrylate) for packaging application. <i>Nano Structures Nano Objects</i> , 2019 , 18, 100300 | 5.6 | 21 |
| 82 | Nano CaCO ₃ Imprinted starch hybrid polyethylhexylacrylatepolyvinylalcohol nanocomposite thin films. <i>Carbohydrate Polymers</i> , 2016 , 139, 90-8 | 10.3 | 21 |
| 81 | Ultrasound assisted synthesis of PMMA/clay nanocomposites: Study of oxygen permeation and flame retardant properties. <i>Bulletin of Materials Science</i> , 2012 , 35, 27-32 | 1.7 | 21 |
| 80 | Influence of functionalized single-walled carbon nanotubes on morphology, conducting and oxygen barrier properties of poly (acrylonitrile-co-starch). <i>Composites Part B: Engineering</i> , 2014 , 62, 236-241 | 10 | 20 |
| 79 | Dispersion of multiwalled carbon nanotubes in polyacrylonitrile-co-starch copolymer matrix for enhancement of electrical, thermal, and gas barrier properties. <i>Polymer Composites</i> , 2013 , 34, 330-334 | 3 | 20 |

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| 78 | Dispersion of SiC nanoparticles in cellulose for study of tensile, thermal and oxygen barrier properties. <i>Carbohydrate Polymers</i> , 2014 , 99, 306-10 | 10.3 | 20 |
| 77 | Application of quercetin flavonoid based hybrid nanocomposites: A review. <i>Saudi Pharmaceutical Journal</i> , 2020 , 28, 1719-1732 | 4.4 | 20 |
| 76 | Study of oxygen permeability and flame retardancy properties of biodegradable polymethylmethacrylate/starch composites. <i>Polymer Composites</i> , 2012 , 33, 79-84 | 3 | 19 |
| 75 | The effect of reduced graphene oxide intercalated hybrid organoclay on the dielectric properties of polyvinylidene fluoride nanocomposite films. <i>Applied Clay Science</i> , 2018 , 162, 69-82 | 5.2 | 18 |
| 74 | Oxygen Barrier of Multiwalled Carbon Nanotube/Polymethyl Methacrylate Nanocomposites Prepared by in situ Method. <i>Journal of Materials Science and Technology</i> , 2012 , 28, 391-395 | 9.1 | 18 |
| 73 | Poly(acrylamide-co-vinyl alcohol) Superabsorbent materials reinforced by modified clay. <i>Polymer Composites</i> , 2013 , 34, 1794-1800 | 3 | 18 |
| 72 | Reduced graphene oxide decorated superporous polyacrylamide based interpenetrating network hydrogel as dye adsorbent. <i>Materials Chemistry and Physics</i> , 2020 , 250, 123022 | 4.4 | 18 |
| 71 | Study of thermal, oxygen-barrier, fire-retardant and biodegradable properties of starch bionanocomposites. <i>Polymer Composites</i> , 2014 , 35, 1238-1243 | 3 | 17 |
| 70 | Electrical conductivity and oxygen permeability of polyacrylonitrile/multiwalled carbon nanotubes composites. <i>Polymer Composites</i> , 2012 , 33, 1114-1119 | 3 | 17 |
| 69 | Effect of zirconium oxide nanopowder on the thermal, chemical and gas barrier properties of starch. <i>Materials Science in Semiconductor Processing</i> , 2014 , 23, 115-121 | 4.3 | 16 |
| 68 | Nanoclay sandwiched reduced graphene oxide filled macroporous polyacrylamide-agar hybrid hydrogel as an adsorbent for dye decontamination. <i>Nano Structures Nano Objects</i> , 2020 , 23, 100507 | 5.6 | 15 |
| 67 | Characterization, Biodegradation, and Water Absorbency of Chemically Modified Tossa Variety Jute Fiber via Pulping and Grafting with Acrylamide. <i>International Journal of Polymer Analysis and Characterization</i> , 2005 , 10, 153-167 | 1.7 | 15 |
| 66 | Emulsifier-free emulsion polymerization of acrylonitrile: Effect of in situ developed Cu(II)/glycine chelate complex initiated by monopersulfate. <i>Journal of Applied Polymer Science</i> , 1999 , 74, 2785-2790 | 2.9 | 15 |
| 65 | Designing of Epoxy Matrix by Chemically Modified Multiwalled Carbon Nanotubes. <i>Advances in Polymer Technology</i> , 2018 , 37, 176-184 | 1.9 | 14 |
| 64 | Effect of organoclays on the thermal, mechanical, and oxygen barrier properties of poly(methylmethacrylate-co-acrylonitrile)/clay nanocomposites. <i>Polymer Composites</i> , 2012 , 33, 796-802 | 3 | 14 |
| 63 | Synthesis and characterization of poly(acrylonitrile-co-methylmethacrylate) nanocomposites reinforced by functionalized multiwalled carbon nanotubes. <i>Iranian Polymer Journal (English Edition)</i> , 2013 , 22, 369-376 | 2.3 | 14 |
| 62 | SYNTHESIS OF PAN/CLAY NANOCOMPOSITES: STUDY OF GAS PERMEATION PROPERTIES. <i>International Journal of Nanoscience</i> , 2011 , 10, 1101-1105 | 0.6 | 14 |
| 61 | Synthesis of zirconocene-acetylene and zirconocene-diacetylene polymer. <i>Journal of Polymer Science Part A</i> , 1999 , 37, 3899-3902 | 2.5 | 14 |

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| 60 | Highly orange fluorescence emission by water soluble gold nanoclusters for turn off sensing of Hg ²⁺ ion. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020 , 386, 112098 | 4.7 | 13 |
| 59 | Biomedical applications of acrylic-based nanohydrogels. <i>Journal of Materials Science</i> , 2018 , 53, 2303-2325 | 4.3 | 12 |
| 58 | Preparation of thermal resistant gas barrier chitosan nanobiocomposites. <i>Polymer Composites</i> , 2014 , 35, 2324-2328 | 3 | 12 |
| 57 | Poly(methyl methacrylate)/soy protein green composites as gas barrier materials. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2012 , 30, 397-404 | 3.5 | 12 |
| 56 | Conductive, Gas Barrier, and Thermal Resistant Behavior of Poly (methyl methacrylate) Composite by Dispersion of ZrO ₂ Nanoparticles. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2013 , 62, 733-736 | 3 | 12 |
| 55 | Characterization and properties of chemically modified Corchorus capsularis jute fiber via pulping and grafting: Infrared, thermogravimetric analysis, differential scanning calorimetry, scanning electron microscopy, X-ray diffraction, biodegradation, and superabsorbency. <i>Journal of Polymer Science Part A</i> , 2012 , 41, 2701-2708 | 2.5 | 12 |
| 54 | Dual Activities of Nano Silver Embedded Reduced Graphene Oxide Using Clove Leaf Extracts: Hg ²⁺ Sensing and Catalytic Degradation. <i>ChemistrySelect</i> , 2019 , 4, 2593-2602 | 1.8 | 11 |
| 53 | Effects of boron nitride nanopowder on thermal, chemical and gas barrier properties of starch. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2014 , 32, 1311-1318 | 3.5 | 11 |
| 52 | Dispersion of expanded graphite as nanoplatelets in a copolymer matrix and its effect on thermal stability, electrical conductivity and permeability. <i>New Carbon Materials</i> , 2012 , 27, 271-277 | 4.4 | 11 |
| 51 | Fabrication of acrylic modified coconut fiber reinforced polypropylene biocomposites: Study of mechanical, thermal, and erosion properties. <i>Polymer Composites</i> , 2017 , 38, 2852-2862 | 3 | 10 |
| 50 | Preparation and characterization of bionanocomposites based on soluble starch/nano CaCO ₃ . <i>Polymer Composites</i> , 2018 , 39, E82-E89 | 3 | 10 |
| 49 | Dispersion of ZrO ₂ nanoparticles in polyacrylonitrile: Preparation of thermally-resistant electrically-conductive oxygen barrier nanocomposites. <i>Materials Science in Semiconductor Processing</i> , 2013 , 16, 2039-2043 | 4.3 | 9 |
| 48 | Ultrasonic and Viscometric Study of Synthesized PAN/Clay Nanocomposites. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2011 , 60, 959-968 | 3 | 9 |
| 47 | Nano Gold Hybrid Polyvinyl Alcohol Films for Sensing of Cu ²⁺ ions. <i>ChemistrySelect</i> , 2019 , 4, 9784-9793 | 1.8 | 8 |
| 46 | Design of carbon nanofiber embedded conducting epoxy resin. <i>Materials Chemistry and Physics</i> , 2017 , 186, 29-35 | 4.4 | 8 |
| 45 | Enhancement of thermal properties of polyacrylonitrile by reinforcement of Mg-Al layered double hydroxide. <i>Polymer Composites</i> , 2015 , 36, 2140-2144 | 3 | 8 |
| 44 | Effect of Cu(II)/H ₂ Salen complex on the non-conventional initiated emulsion polymerization of acrylonitrile. <i>European Polymer Journal</i> , 2002 , 38, 345-350 | 5.2 | 8 |
| 43 | Rhodamine B associated Ag/r-GO nanocomposites as ultrasensitive fluorescent sensor for Hg ²⁺ . <i>Microchemical Journal</i> , 2020 , 154, 104577 | 4.8 | 8 |

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| 42 | Antimicrobial and barrier properties of polyacrylic acid/GO hybrid nanocomposites for packaging application. <i>Nano Structures Nano Objects</i> , 2021 , 26, 100747 | 5.6 | 8 |
| 41 | Emulsifier-free emulsion polymerization of acrylonitrile: Effect of in situ developed Cu(II)/glycine chelate complex initiated by monopersulfate. <i>Journal of Applied Polymer Science</i> , 1999 , 74, 2785 | 2.9 | 7 |
| 40 | Silver Nanoparticles Decorated Polyethylmethacrylate/Graphene Oxide Composite: As Packaging Material. <i>Polymer Composites</i> , 2019 , 40, E1199-E1207 | 3 | 7 |
| 39 | Nanoclay decorated polyacrylic acid/starch hybrid nanocomposite thin films as packaging materials. <i>Polymer Composites</i> , 2019 , 40, 229-239 | 3 | 7 |
| 38 | Nano silicon carbide embodied soy protein bionanocomposites. <i>Polymer Composites</i> , 2017 , 38, E57-E65 | 3 | 6 |
| 37 | Graphite-reinforced oxygen barrier conducting starch bionanocomposites. <i>Polymer Composites</i> , 2016 , 37, 2083-2091 | 3 | 6 |
| 36 | Dispersion of nanoplatelets of graphite on PMMA matrix by in situ polymerisation technique. <i>Journal of Experimental Nanoscience</i> , 2014 , 9, 240-248 | 1.9 | 6 |
| 35 | Ultrasound assisted process of PA6/clay nanocomposites: mechanical, rheological and barrier properties. <i>Journal of Polymer Engineering</i> , 2011 , 31, | 1.4 | 6 |
| 34 | Sonochemical Compatibility of Polyvinyl Alcohol/Polyacrylic Acid Blend in Aqueous Solution. <i>Journal of Macromolecular Science - Physics</i> , 2012 , 51, 580-589 | 1.4 | 6 |
| 33 | Effect of graphene platelets on the thermal and conducting properties of poly(ethyl methacrylate). <i>Advances in Polymer Technology</i> , 2018 , 37, 1316-1322 | 1.9 | 5 |
| 32 | Polypropylene oxide/polyethylene oxide-cellulose hybrid nanocomposite hydrogels as drug delivery vehicle. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 49921 | 2.9 | 5 |
| 31 | Delamination of Mg-Al Layered Double Hydroxide on Starch: Change in Structural and Thermal Properties. <i>Polymer-Plastics Technology and Engineering</i> , 2018 , 57, 1585-1591 | | 4 |
| 30 | h-BN huddled starch reinforced polyethylhexylacrylatepolyvinyl alcohol thin films for packaging applications. <i>Polymer Composites</i> , 2019 , 40, 1810-1818 | 3 | 4 |
| 29 | Polymer-Based Bionanocomposites for Future Packaging Materials 2018 , 33-48 | | 4 |
| 28 | Antimicrobial Properties of Nanogold-Imprinted Starch Bionanocomposites. <i>Polymer-Plastics Technology and Engineering</i> , 2017 , 56, 334-345 | | 3 |
| 27 | Nano silver imprinted graphene oxide as catalyst in reduction of 4-nitrophenol. <i>Journal of Physical Organic Chemistry</i> , 2019 , 32, e3971 | 2.1 | 3 |
| 26 | Nano ZrO ₂ reinforced cellulose incorporated polyethylmethacrylate/polyvinyl alcohol composite films as semiconducting packaging materials. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 49284 | 2.9 | 3 |
| 25 | Nanocellulose as a template for the production of advanced nanostructured material 2017 , 427-454 | | 3 |

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| 24 | Surfactant free green synthesis of GOSiMa hybrid nanocomposite for charge storage application. <i>Ceramics International</i> , 2020 , 46, 27184-27192 | 5.1 | 3 |
| 23 | Preparation, characterization and dielectric properties of GO based ZnO embedded mixed metal oxides ternary nanostructured composites. <i>Journal of Alloys and Compounds</i> , 2021 , 869, 159274 | 5.7 | 3 |
| 22 | Nano ZnO imprinted dextran hybrid poly (N-isopropylacrylamide)/poly ethylene glycol composite hydrogels for in vitro release of ciprofloxacin. <i>Materials Today Communications</i> , 2021 , 26, 101869 | 2.5 | 3 |
| 21 | Effect of SiC Nanoparticles on Thermal and Oxygen Barrier Properties of Albumin Bovine Protein. <i>Polymer-Plastics Technology and Engineering</i> , 2013 , 52, 940-945 | | 2 |
| 20 | Structural and mechanical properties of functionalized carbon nanofiber/epoxy nanocomposites. <i>Materials Today: Proceedings</i> , 2017 , 4, 9060-9064 | 1.4 | 2 |
| 19 | Effect of polycaprolactone on physicochemical, biological, and mechanical properties of polyethylene oxide and polyamino acids nano block copolymers. <i>Journal of Applied Polymer Science</i> , 2019 , 143, 48298 | 2.9 | 2 |
| 18 | A materials science approach towards bioinspired polymeric nanocomposites: a comprehensive review. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 1-16 | 3 | 2 |
| 17 | Nano-CaCO ₃ -embodied polyacrylic acid/dextran nanocomposites for packaging applications. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 48298 | 2.9 | 2 |
| 16 | Sandwich-structured starch-grafted polyethylhexylacrylate/polyvinyl alcohol thin films. <i>Advances in Polymer Technology</i> , 2018 , 37, 3779-3791 | 1.9 | 2 |
| 15 | Synthesis of Soy Protein Based Biocomposites for Packaging Applications. <i>Green Energy and Technology</i> , 2017 , 143-166 | 0.6 | 1 |
| 14 | Carbohydrate-Based Nanohydrogels for Drug-Delivery Applications 2019 , 117-137 | | 1 |
| 13 | Nanostructured gold dispersed polyethylmethacrylate/dextran hybrid composites for packaging applications. <i>Polymer-Plastics Technology and Materials</i> , 2019 , 58, 2019-2030 | 1.5 | 1 |
| 12 | Nanostructured chitosan composites for cancer therapy: A review. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2018 , 67, 879-888 | 3 | 1 |
| 11 | Characterization of Polyacrylonitrile Nanocomposites by Reinforcement of Functionalized Single-Walled Carbon Nanotubes. <i>Polymer-Plastics Technology and Engineering</i> , 2014 , 53, 784-789 | | 1 |
| 10 | Soy protein based biocomposites as ideal packaging materials 2021 , 65-84 | | 1 |
| 9 | Effect of layered graphene oxide on the structure and properties of bovine serum albumin grafted polyacrylonitrile hybrid bionanocomposites. <i>Polymer Composites</i> , 2019 , 40, 3989-4003 | 3 | 0 |
| 8 | Chitosan-Based Nanobiocomposites for Wound-Healing Applications 2019 , 295-314 | | 0 |
| 7 | Change in Orientation of Polyacrylic Acid and Chitosan Networks by Imprintment of Gold Nanoparticles. <i>Polymer-Plastics Technology and Materials</i> , 2021 , 60, 182-194 | 1.5 | 0 |

- 6 Cellulose-Based Nanohydrogels for Tissue Engineering Applications **2017**, 67-90
- 5 Manufacturing of Chemically Modified Date Palm Leaf Fibre-Reinforced Polymer Composites **2015**, 291-308
- 4 Biobased Nanohydrogels for Controlled Drug Delivery. *Materials Horizons*, **2019**, 21-41 o.6
- 3 Oxygen Permeability of Layer Silicate Reinforced Polymer Nanocomposites. *Engineering Materials*, **2016**, 141-166 o.4
- 2 Microscopic Analysis and Characterization of Natural Rubber Containing Carbon Fillers **2019**, 225-251
- 1 Chitosan-Based Bionanocomposite for Packaging Applications **2018**, 107-124