

# Anil Kumar Bhowmick

## List of Publications by Year in descending order

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342  
papers

12,259  
citations

28274

55  
h-index

46799

89  
g-index

357  
all docs

357  
docs citations

357  
times ranked

8780  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of high melt strength polypropylene and its application in thermoplastic elastomeric composition. <i>Journal of Elastomers and Plastics</i> , 2022, 54, 429-456.	1.5	5
2	<scp>Nanofiberâ€Carbon</scp> black dual filler reinforced sustainable <scp>highâ€performance</scp> Natural Rubber nanocomposites. <i>Polymer Engineering and Science</i> , 2022, 62, 2668-2683.	3.1	5
3	<scp>3â€Octanoylthio</scp>â€1â€propyltriethoxysilane functionalized silica/rubber composites for application in tire: Structure, performance and synergism. <i>Polymer Composites</i> , 2022, 43, 7575-7599.	4.6	7
4	Study of reinforcement mechanism and structural elucidation of expanded graphiteâ€carbon black hybrid fillerâ€SBR nanocomposites through comprehensive analysis of mechanical properties and small angle Xâ€ray data. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49093.	2.6	10
5	Excavating the unique synergism of nanofibers and carbon black in Natural rubber based tire tread composition. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49682.	2.6	10
6	Understanding thermo-oxidative degradation of polyacrylic ester elastomer and its nanocomposites through molecular dynamics simulation and experiments. <i>Polymer Degradation and Stability</i> , 2021, 183, 109457.	5.8	12
7	Synthesis and characterization of epoxidized neem oil: A <scp>bioâ€derived</scp> natural processing aid for elastomer. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50440.	2.6	5
8	Facile Synthesis and Characterization of Few-Layer Multifunctional Graphene from Sustainable Precursors by Controlled Pyrolysis, Understanding of the Graphitization Pathway, and Its Potential Application in Polymer Nanocomposites. <i>ACS Omega</i> , 2021, 6, 1809-1822.	3.5	9
9	Flourishing an Electrochemical Synthetic Route toward Carbon Black-Intercalated Graphene As a Neoteric Hybrid Nanofiller for Multifunctional Polymer Nanocomposites. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 5758-5769.	3.7	8
10	Special Issue â€Green Synthesis Processes of Polymers & Compositesâ€. <i>Processes</i> , 2021, 9, 628.	2.8	0
11	WASTE MORINGA OLEIFERA GUM AS A MULTIFUNCTIONAL ADDITIVE FOR UNFILLED SBR COMPOUND. <i>Rubber Chemistry and Technology</i> , 2021, , .	1.2	2
12	METAL-ORGANIC FRAMEWORK: A SMART REPLACEMENT FOR CONVENTIONAL NANOFILLERS FOR THE ENHANCEMENT OF MECHANICAL PROPERTIES AND THERMAL STABILITY OF SBR NANOCOMPOSITE. <i>Rubber Chemistry and Technology</i> , 2021, 94, 515-532.	1.2	3
13	Improved tire tread compounds using functionalized styrene butadiene rubberâ€silica filler/hybrid filler systems. <i>Journal of Applied Polymer Science</i> , 2021, 138, 51236.	2.6	13
14	Unique approach to debundle carbon nanotubes in polymer matrix using carbon dots for enhanced properties. <i>European Polymer Journal</i> , 2020, 123, 109454.	5.4	15
15	Highâ€temperature degradation of butadieneâ€based model elastomers by reactive molecular dynamics simulation. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48592.	2.6	6
16	Effect of structure development on the rheological properties of PVDF/HNBRâ€based thermoplastic elastomer and its vulcanizates. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48758.	2.6	12
17	Polyvinylidene Fluoride/Hydrogenated Nitrile Rubber-Based Flexible Electroactive Polymer Blend and Its Nanocomposites with Improved Actuated Strain: Characterization and Analysis of Electrostrictive Behavior. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 3413-3424.	3.7	6
18	Controlled Methodology for Development of a Polydimethylsiloxaneâ€Polytetrafluoroethylene-Based Composite for Enhanced Chemical Resistance: A Structureâ€Property Relationship Study. <i>ACS Omega</i> , 2020, 5, 22482-22493.	3.5	10

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19	Improved dispersion and physico-mechanical properties of rubber/silica composites through new silane grafting. <i>Polymer Engineering and Science</i> , 2020, 60, 3115-3134.	3.1	34
20	Terpene Based Elastomers: Synthesis, Properties, and Applications. <i>Processes</i> , 2020, 8, 553.	2.8	55
21	Sustainable Water Responsive Mechanically Adaptive and Self-Healable Polymer Composites Derived from Biomass. <i>Processes</i> , 2020, 8, 726.	2.8	4
22	Metal/metal oxide decorated graphene synthesis and application as supercapacitor: a review. <i>Journal of Materials Science</i> , 2020, 55, 6375-6400.	3.7	111
23	The unique microsphere of ruthenium manganate: Synthesis, structure elucidation, morphology analyses and magnetic property. <i>Materials Chemistry and Physics</i> , 2020, 246, 122845.	4.0	2
24	NATURAL RUBBER NANOCOMPOSITES BASED ON NEW FIBROUS NANOFILLERS WITH IMPROVED BARRIER PROPERTIES FOR USE IN TIRE INNERLINER APPLICATIONS. <i>Rubber Chemistry and Technology</i> , 2020, , 000-000.	1.2	3
25	PENETRATION RESISTANCE OF RUBBER VULCANIZATES. <i>Rubber Chemistry and Technology</i> , 2020, 93, 704-728.	1.2	1
26	Reactive grafting of 3-octanoylthio-1-propyltriethoxysilane in styrene butadiene rubber: Characterization and its effect on silica reinforced tire composites. <i>Polymer</i> , 2019, 179, 121693.	3.8	16
27	Redox Emulsion Polymerization of Terpenes: Mapping the Effect of the System, Structure, and Reactivity. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 20946-20960.	3.7	35
28	Unique compatibilized thermoplastic elastomer from polypropylene and epichlorohydrin rubber. <i>Polymer</i> , 2019, 183, 121866.	3.8	22
29	Synthesis, characterization and properties of self-healable ionomeric carboxylated styrene-butadiene polymer. <i>Journal of Materials Science</i> , 2019, 54, 14986-14999.	3.7	13
30	Synthesis and Characterization of Phenol Furfural Resin from <i>Moringa Oleifera</i> Gum and Biophenol and Its Application in Styrene Butadiene Rubber. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 18519-18532.	3.7	23
31	Influence of highly dispersible silica filler on the physical properties, tearing energy, and abrasion resistance of tire tread compound. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47560.	2.6	24
32	Microstructure and relaxation behavior of flexible dielectric PVDF and HNBR blends: An assessment through small-angle x-ray scattering and dielectric relaxation spectroscopy. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019, 57, 851-866.	2.1	8
33	EFFECT OF SILICA LOADING AND COUPLING AGENT ON WEAR AND FATIGUE PROPERTIES OF A TREAD COMPOUND. <i>Rubber Chemistry and Technology</i> , 2019, 92, 326-349.	1.2	15
34	INFLUENCE OF NANOFILLER ON THERMAL DEGRADATION RESISTANCE OF HYDROGENATED NITRILE BUTADIENE RUBBER. <i>Rubber Chemistry and Technology</i> , 2019, 92, 263-285.	1.2	15
35	Influence of layered nanofillers on the mechanical properties and thermal degradation of polyacrylic ester polymer: Theoretical and experimental investigations. <i>Composites Part B: Engineering</i> , 2019, 169, 65-78.	12.0	24
36	Sustainable self-healing elastomers with thermoreversible network derived from biomass via emulsion polymerization. <i>Journal of Polymer Science Part A</i> , 2019, 57, 738-751.	2.3	21

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37	An Insight into molecular structure and properties of flexible amorphous polymers: A molecular dynamics simulation approach. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47457.	2.6	32
38	Design of a Molecular Architecture via a Green Route for an Improved Silica Reinforced Nanocomposite using Bioresources. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 6599-6611.	6.7	41
39	Reactive molecular dynamics simulation for analysis of thermal decomposition of oligomeric polyacrylic ester model nanocomposite and its experimental verification. <i>Polymer</i> , 2018, 137, 38-53.	3.8	24
40	Terpene-Based Sustainable Elastomers: Vulcanization and Reinforcement Characteristics. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 5197-5206.	3.7	20
41	Sustainable rubbers and rubber additives. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45701.	2.6	70
42	Sustainable bionanocomposite from $\epsilon$ -CLT, $\epsilon$ -CLT- $\epsilon$ -valerolactone triblock and bionanowhiskers: Preparation, characterization, and properties. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46035.	2.6	1
43	SMART THERMOPLASTIC ELASTOMERS WITH HIGH EXTENSIBILITY FROM POLY (VINYLIDENE FLUORIDE) AND HYDROGENATED NITRILE RUBBER: PROCESSING-STRUCTURE-PROPERTY RELATIONSHIP. <i>Rubber Chemistry and Technology</i> , 2018, 91, 268-295.	1.2	12
44	Catalyst driven preferential growth of in-situ generated nanosilica particles in the phases of incompatible polymer blend and its effect on physico-mechanical properties. <i>Polymer</i> , 2018, 156, 186-202.	3.8	4
45	Selective Orientation of Needlelike Sepiolite Nanoclay in Polymer Blend for Controlled Properties. <i>ACS Omega</i> , 2018, 3, 11691-11702.	3.5	8
46	Expanded graphite as an agent towards controlling the dispersion of carbon black in poly (styrene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 multifunctional composite. <i>Polymer</i> , 2018, 146, 31-41.	3.8	21
47	Computer aided simulation of thermoplastic elastomer from poly (vinylidene fluoride)/hydrogenated nitrile rubber blend and its experimental verification. <i>Polymer</i> , 2017, 112, 402-413.	3.8	18
48	High-temperature pyrolysis simulation of acrylonitrile-butadiene model compound with experimental evidence. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 125, 243-257.	5.5	16
49	Design and properties of a series of high-temperature thermoplastic elastomeric blends from polyamides and functionalized rubbers. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45353.	2.6	17
50	Influence of microstructure of lactone-based triblock copolymers on drug release behavior of their microspheres. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45284.	2.6	3
51	Terpene based sustainable methacrylate copolymer series by emulsion polymerization: Synthesis and structure-property relationship. <i>Journal of Polymer Science Part A</i> , 2017, 55, 2639-2649.	2.3	31
52	Ionic liquid modification of graphene oxide and its role towards controlling the porosity, and mechanical robustness of polyurethane foam. <i>Polymer</i> , 2017, 127, 106-118.	3.8	19
53	Synthesis and Characterization of a Terpene-Based Sustainable Polymer: Poly-alloocimene. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 7659-7669.	6.7	26
54	HIGH-TEMPERATURE THERMOPLASTIC ELASTOMERS FROM RUBBER-PLASTIC BLENDS: A STATE-OF-THE-ART REVIEW. <i>Rubber Chemistry and Technology</i> , 2017, 90, 1-36.	1.2	46

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55	Adhesion Between Unvulcanized Elastomers: A Critical Review. <i>Reviews of Adhesion and Adhesives</i> , 2017, 5, 195-267.	3.4	3
56	Impeded repair of abasic site damaged lesions in DNA adsorbed over functionalized multiwalled carbon nanotube and graphene oxide. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2016, 803-804, 39-46.	1.7	4
57	An effective strategy to develop nanostructured morphology and enhanced physico-mechanical properties of PP/EPDM thermoplastic elastomers. <i>Journal of Materials Science</i> , 2016, 51, 6722-6734.	3.7	49
58	Degradation of polyacrylic elastomers: Theoretical and experimental studies. <i>Polymer Degradation and Stability</i> , 2016, 134, 60-75.	5.8	21
59	Terpene Based Sustainable Elastomer for Low Rolling Resistance and Improved Wet Grip Application: Synthesis, Characterization and Properties of Poly(styrene- <i>co</i> -myrcene). <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 5462-5474.	6.7	75
60	Computer simulation of thermoplastic elastomers from rubber-plastic blends and comparison with experiments. <i>Polymer</i> , 2016, 103, 233-242.	3.8	26
61	Graphene-Based Elastomer Nanocomposites: Functionalization Techniques, Morphology, and Physical Properties. <i>Advances in Polymer Science</i> , 2016, , 267-318.	0.8	9
62	Preferentially fixing nanoclays in the phases of incompatible carboxylated nitrile rubber (XNBR)-natural rubber (NR) blend using thermodynamic approach and its effect on physico mechanical properties. <i>Polymer</i> , 2016, 99, 21-43.	3.8	31
63	Functionalized graphene with polymer as unique strategy in tailoring the properties of bromobutyl rubber nanocomposites. <i>Polymer</i> , 2016, 82, 121-132.	3.8	55
64	Graphene Nanocomposites with High Molecular Weight Poly( $\mu$ -caprolactone) Grafts: Controlled Synthesis and Accelerated Crystallization. <i>ACS Macro Letters</i> , 2016, 5, 278-282.	4.8	36
65	Green Approach toward Sustainable Polymer: Synthesis and Characterization of Poly(myrcene- <i>co</i> -dibutyl itaconate). <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 2129-2141.	6.7	55
66	Viscoelastic properties and melt rheology of novel polyamide 6/fluoroelastomer nanostructured thermoplastic vulcanizates. <i>Journal of Materials Science</i> , 2016, 51, 252-261.	3.7	23
67	Nanomechanics and Origin of Rubber Elasticity of Novel Nanostructured Thermoplastic Elastomeric Blends Using Atomic Force Microscopy. <i>Macromolecular Chemistry and Physics</i> , 2015, 216, 1666-1674.	2.2	42
68	Dynamic vulcanization of novel nanostructured polyamide 6/ fluoroelastomer thermoplastic elastomeric blends with special reference to morphology, physical properties and degree of vulcanization. <i>Polymer</i> , 2015, 57, 105-116.	3.8	53
69	Influence of the Nature of Acrylates on the Reactivity, Structure, and Properties of Polyurethane Acrylates. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 47-54.	3.7	12
70	Distinct Melt Viscoelastic Properties of Novel Nanostructured and Microstructured Thermoplastic Elastomeric Blends from Polyamide 6 and Fluoroelastomer. <i>Macromolecular Materials and Engineering</i> , 2015, 300, 283-290.	3.6	31
71	Controlled Synthesis of Nitrogen-Doped Graphene from a Heteroatom Polymer and Its Mechanism of Formation. <i>Chemistry of Materials</i> , 2015, 27, 716-725.	6.7	33
72	Tailored Nanostructured Thermoplastic Elastomers from Polypropylene and Fluoroelastomer: Morphology and Functional Properties. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 8137-8146.	3.7	51

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73	Raman and NMR Spectroscopic Studies on Hydrolytic Degradation of $\alpha$ -Lactide- $\gamma$ -Valerolactone- $\alpha$ -Lactide Copolymer. ACS Sustainable Chemistry and Engineering, 2015, 3, 1381-1393.	6.7	7
74	Polymer nanocomposites from modified clays: Recent advances and challenges. Progress in Polymer Science, 2015, 51, 127-187.	24.7	475
75	Stress Generation and Tailoring of Electronic Properties of Expanded Graphite by Click Chemistry. ACS Applied Materials & Interfaces, 2014, 6, 7244-7253.	8.0	16
76	Synthesis and characterization of a biocompatible monotyrosine-based polymer and its interaction with DNA. Journal of Materials Chemistry B, 2014, 2, 6236-6248.	5.8	15
77	Nanolamellar triblock of poly- $\alpha$ -lactide- $\gamma$ -valerolactone- $\alpha$ -lactide with tuneable glass transition temperature and crystallinity for use as a drug-delivery vesicle. RSC Advances, 2014, 4, 27439-27451.	3.6	29
78	Synthesis, characterization and properties of a bio-based elastomer: polymyrcene. RSC Advances, 2014, 4, 61343-61354.	3.6	98
79	Conducting Instant Adhesives by Grafting of Silane Polymer onto Expanded Graphite. ACS Applied Materials & Interfaces, 2014, 6, 16097-16105.	8.0	21
80	Spectroscopic and Morphology Studies of Biodegradable Nanolamellar Lactone Based Triblocks. Journal of Physical Chemistry C, 2014, 118, 22325-22338.	3.1	3
81	Butyl lithium assisted direct grafting of polyoligomeric silsesquioxane onto graphene. RSC Advances, 2014, 4, 8649.	3.6	10
82	Processing of abasic site damaged lesions by APE1 enzyme on DNA adsorbed over normal and organomodified clay. Chemosphere, 2014, 112, 503-510.	8.2	5
83	Structure-property correlation of polyurethane nanocomposites: Influence of loading and nature of nanosilica and microstructure of hyperbranched polyol. Journal of Applied Polymer Science, 2013, 127, 4492-4504.	2.6	17
84	Biocompatible composites of fibrous nanohydroxyapatite embedded in a polydimethylsiloxane. Journal of Materials Science, 2013, 48, 5132-5139.	3.7	9
85	Synthesis and characterization of fibrous nanosilica/polydimethylsiloxane composites. Journal of Applied Polymer Science, 2013, 130, 1005-1019.	2.6	2
86	Novel nanostructured polyamide 6/fluoroelastomer thermoplastic elastomeric blends: Influence of interaction and morphology on physical properties. Polymer, 2013, 54, 6561-6571.	3.8	66
87	Multifunctional Hybrid Materials Based on Carbon Nanotube Chemically Bonded to Reduced Graphene Oxide. Journal of Physical Chemistry C, 2013, 117, 25865-25875.	3.1	75
88	Thermoplastic vulcanizates from post consumer computer plastics/nitrile rubber blends by dynamic vulcanization. Journal of Material Cycles and Waste Management, 2013, 15, 300-309.	3.0	19
89	Bionanowhiskers from jute: Preparation and characterization. Carbohydrate Polymers, 2013, 92, 1116-1123.	10.2	50
90	Influence of nanofillers on the sorption and diffusion characteristics of the solvent in vulcanized hydrogenated nitrile rubber nanocomposite. Journal of Applied Polymer Science, 2013, 128, 2556-2562.	2.6	5

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91	Synthesis, optical, and electrical properties of RNA-mediated Ag/PVA nanobiocomposites. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	2
92	Synthesis and characterization of bi-functionalized graphene and expanded graphite using n-butyl lithium and their use for efficient water soluble dye adsorption. Journal of Materials Chemistry A, 2013, 1, 8144.	10.3	38
93	An imidazolium-functionalized isobutylene polymer having improved mechanical and barrier properties: Synthesis and characterization. Journal of Applied Polymer Science, 2013, 128, 2911-2918.	2.6	3
94	NOVEL IN SITU SILICA/POLYDIMETHYLSILOXANE NANOCOMPOSITES: FACILE ONE-POT SYNTHESIS AND CHARACTERIZATION. Rubber Chemistry and Technology, 2012, 85, 92-107.	1.2	10
95	Tailor-Made Fibrous Hydroxyapatite/Polydimethylsiloxane Composites: Insight into the Kinetics of Polymerization in the Presence of Filler and Structureâ€“Property Relationship. Journal of Physical Chemistry C, 2012, 116, 26551-26560.	3.1	5
96	Tailor-Made Fibrous Nanohydroxyapatite/Polydimethylsiloxane Composites: Excavating the Role of Nanofiller Aspect Ratio, Amorphicity, and Noncovalent Surface Interaction. Journal of Physical Chemistry C, 2012, 116, 8763-8772.	3.1	20
97	Dynamic Transitions and Creep in Carbon Nanofiber/Polydimethylsiloxane Nanocomposites with Meticulously Architected Polymerâ€“Filler Interfaces. Industrial & Engineering Chemistry Research, 2012, 51, 9571-9580.	3.7	8
98	Chlorophenyl pendant decorated graphene sheet as a potential antimicrobial agent: synthesis and characterization. Journal of Materials Chemistry, 2012, 22, 22481.	6.7	50
99	Influence of the nanofiller type and content on permeation characteristics of multifunctional NR nanocomposites and their modeling. Polymers for Advanced Technologies, 2012, 23, 596-610.	3.2	10
100	Efficacy of clay content and microstructure of curing agents on the structureâ€“property relationship of newâ€“generation polyurethane nanocomposites. Polymers for Advanced Technologies, 2012, 23, 1311-1320.	3.2	10
101	Modifications of carbon for polymer composites and nanocomposites. Progress in Polymer Science, 2012, 37, 781-819.	24.7	256
102	Novel <i>in situ</i> carbon nanofiber/polydimethylsiloxane nanocomposites: Synthesis, morphology, and physicoâ€“mechanical properties. Journal of Applied Polymer Science, 2012, 123, 3675-3687.	2.6	11
103	In situ preparation, morphology and electrical properties of carbon nanofiber/polydimethylsiloxane nanocomposites. Journal of Materials Science, 2012, 47, 272-281.	3.7	20
104	The role of tackifiers on the auto-adhesion behavior of EPDM rubber. Journal of Materials Science, 2012, 47, 3166-3176.	3.7	10
105	2-Methyl oxazoline-grafted carbon nanofibers: preparation, characterization and their role in elastomeric actuators. Journal of Materials Science, 2012, 47, 4178-4186.	3.7	5
106	New Route for Devulcanization of Natural Rubber and the Properties of Devulcanized Rubber. Journal of Polymers and the Environment, 2011, 19, 382-390.	5.0	89
107	Dynamic stress relaxation behavior of nanogel filled elastomers. Journal of Polymer Research, 2011, 18, 489-497.	2.4	7
108	Studies of reinforcement behavior of unique elastomerâ€“based nanocomposite gels. Polymer Composites, 2011, 32, 103-113.	4.6	2

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109	Morphology and properties of stearateâ€intercalated layered double hydroxide nanoplateletâ€reinforced thermoplastic polyurethane. <i>Polymer International</i> , 2011, 60, 772-780.	3.1	32
110	Surface modification of argon/oxygen plasma treated vulcanized ethylene propylene diene polymethylene surfaces for improved adhesion with natural rubber. <i>Applied Surface Science</i> , 2011, 257, 2891-2904.	6.1	42
111	Influence of nanoclay on adhesion of EPDM vulcanizate. <i>International Journal of Adhesion and Adhesives</i> , 2011, 31, 209-219.	2.9	13
112	A review on the mechanical and electrical properties of graphite and modified graphite reinforced polymer composites. <i>Progress in Polymer Science</i> , 2011, 36, 638-670.	24.7	1,055
113	Permeation characteristics and modeling of barrier properties of multifunctional rubber nanocomposites. <i>Polymer</i> , 2011, 52, 1562-1576.	3.8	76
114	Effect of different nanoparticles on thermal, mechanical and dynamic mechanical properties of hydrogenated nitrile butadiene rubber nanocomposites. <i>Journal of Applied Polymer Science</i> , 2010, 116, 1428-1441.	2.6	14
115	Influence of carbonâ€based nanofillers on the electrical and dielectric properties of ethylene vinyl acetate nanocomposites. <i>Polymer Composites</i> , 2010, 31, 218-225.	4.6	13
116	Chlorinated polyethylene nanocomposites: thermal and mechanical behavior. <i>Journal of Materials Science</i> , 2010, 45, 64-73.	3.7	28
117	Synergy in carbon black-filled natural rubber nanocomposites. Part I: Mechanical, dynamic mechanical properties, and morphology. <i>Journal of Materials Science</i> , 2010, 45, 6126-6138.	3.7	69
118	Synergy in carbon black filled natural rubber nanocomposites. Part II: Abrasion and viscoelasticity in tire like applications. <i>Journal of Materials Science</i> , 2010, 45, 6139-6150.	3.7	18
119	Nanoclay distribution and its influence on the mechanical properties of rubber blends. <i>Journal of Applied Polymer Science</i> , 2010, 115, 1237-1246.	2.6	26
120	Preparation and characterization of elastomerâ€based nanocomposite gels using an unique latex blending technique. <i>Journal of Applied Polymer Science</i> , 2010, 118, 81-90.	2.6	13
121	Electron beam crosslinked gelsâ€Preparation, characterization and their effect on the mechanical, dynamic mechanical and rheological properties of rubbers. <i>Radiation Physics and Chemistry</i> , 2010, 79, 289-296.	2.8	15
122	Preparation and properties of natural nanocomposites based on natural rubber and naturally occurring halloysite nanotubes. <i>Materials &amp; Design</i> , 2010, 31, 2151-2156.	5.1	238
123	Effect of organo-modified clay on accelerated aging resistance of hydrogenated nitrile rubber nanocomposites and their life time prediction. <i>Polymer Degradation and Stability</i> , 2010, 95, 2555-2562.	5.8	65
124	Preparation and properties of polyurethane nanocomposites of novel architecture as advanced barrier materials. <i>Polymer</i> , 2010, 51, 1100-1110.	3.8	89
125	Facile one-pot synthesis and characterization of maleated hydrocarbon resin tackifier for improved adhesion. <i>International Journal of Adhesion and Adhesives</i> , 2010, 30, 200-207.	2.9	10
126	Effect of tackifier compatibility and blend viscoelasticity on peel strength behavior of vulcanized EPDM rubber co-cured with unvulcanized rubber. <i>International Journal of Adhesion and Adhesives</i> , 2010, 30, 489-499.	2.9	19



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127	Analysis of wear characteristics of natural rubber nanocomposites. <i>Wear</i> , 2010, 269, 152-166.	3.1	46
128	Effect of polar modifications on cure characteristics, solvent resistance and thermo-mechanical properties of metallocene-based polyolefinic elastomers. <i>European Polymer Journal</i> , 2010, 46, 364-373.	5.4	6
129	Interplay between bulk viscoelasticity and surface energy in autohesive tack of rubber-tackifier blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 972-982.	2.1	15
130	XNBR/LDH nanocomposites: Effect of vulcanization and organic modifier on nanofiller dispersion and strain-induced crystallization. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010, 48, 2302-2311.	2.1	25
131	Thermoplastic polyurethane and nitrile butadiene rubber blends with layered double hydroxide nanocomposites by solution blending. <i>Polymer International</i> , 2010, 59, 2-10.	3.1	90
132	Highly transparent thermoplastic elastomer from isotactic polypropylene and styrene/ethylene-butylene/styrene triblock copolymer: Structure-property correlations. <i>Polymer Engineering and Science</i> , 2010, 50, 331-341.	3.1	34
133	Influence of molecular parameters on thermal, mechanical, and dynamic mechanical properties of hydrogenated nitrile rubber and its nanocomposites. <i>Polymer Engineering and Science</i> , 2010, 50, 1389-1399.	3.1	19
134	Liquid Silicone Rubber Vulcanizates: Network Structure - Property Relationship and Cure Kinetics. <i>Polymers and Polymer Composites</i> , 2010, 18, 477-488.	1.9	14
135	Influence of Nanoclay on the Morphology, Adhesive and Mechanical Properties of Polysulfide Modified Epoxy Resin. <i>Polymers and Polymer Composites</i> , 2010, 18, 123-131.	1.9	8
136	Exfoliation of Nanolayer Assemblies for Improved Natural Rubber Properties: Methods and Theory. <i>Journal of Elastomers and Plastics</i> , 2010, 42, 517-537.	1.5	16
137	Efficacy of Novel Nanoclay in Autohesive Tack of Brominated Isobutylene-co-p-Methylstyrene (BIMS) Rubber. <i>Journal of Adhesion Science and Technology</i> , 2010, 24, 789-809.	2.6	10
138	Correlation of Vulcanization and Viscoelastic Properties of Nanocomposites Based on Natural Rubber and Different Nanofillers, with Molecular and Supramolecular Structure. <i>Rubber Chemistry and Technology</i> , 2010, 83, 16-34.	1.2	13
139	Effect of Various Nanofillers on Thermal Stability and Degradation Kinetics of Polymer Nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 5056-5071.	0.9	36
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