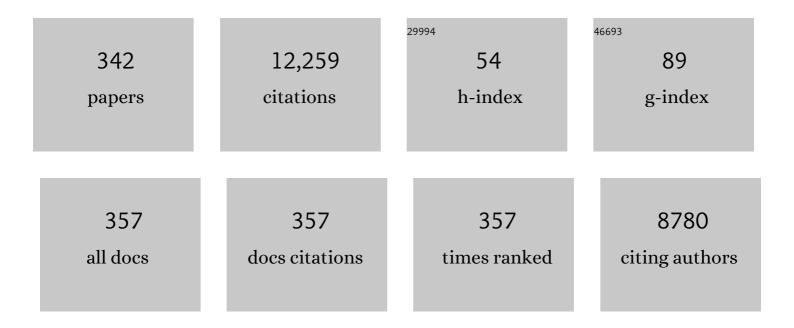
Anil Kumar Bhowmick

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A review on the mechanical and electrical properties of graphite and modified graphite reinforced polymer composites. Progress in Polymer Science, 2011, 36, 638-670.	11.8	1,055
2	Polymer nanocomposites from modified clays: Recent advances and challenges. Progress in Polymer Science, 2015, 51, 127-187.	11.8	475
3	Modifications of carbon for polymer composites and nanocomposites. Progress in Polymer Science, 2012, 37, 781-819.	11.8	256
4	Preparation and properties of natural nanocomposites based on natural rubber and naturally occurring halloysite nanotubes. Materials & Design, 2010, 31, 2151-2156.	5.1	238
5	Preparation and properties of nanocomposites based on acrylonitrile-butadiene rubber, styrene-butadiene rubber, and polybutadiene rubber. Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 1573-1585.	2.4	179
6	Elastomer Nanocomposites. Rubber Chemistry and Technology, 2008, 81, 384-469.	0.6	172
7	Effect of zinc oxide nanoparticles as cure activator on the properties of natural rubber and nitrile rubber. Journal of Applied Polymer Science, 2007, 105, 2407-2415.	1.3	145
8	Preparation and properties of styrene-butadiene rubber based nanocomposites: The influence of the structural and processing parameters. Journal of Applied Polymer Science, 2004, 92, 698-709.	1.3	136
9	Synthesis of partially exfoliated EPDM/LDH nanocomposites by solution intercalation: Structural characterization and properties. Composites Science and Technology, 2007, 67, 2807-2816.	3.8	136
10	Rubber-clay nanocomposite by solution blending. Journal of Applied Polymer Science, 2003, 87, 2216-2220.	1.3	124
11	Polyamide-6,6/in situ silica hybrid nanocomposites by sol–gel technique: synthesis, characterization and properties. Polymer, 2005, 46, 3343-3354.	1.8	122
12	Metal/metal oxide decorated graphene synthesis and application as supercapacitor: a review. Journal of Materials Science, 2020, 55, 6375-6400.	1.7	111
13	Thermal ageing, degradation and swelling of acrylate rubber, fluororubber and their blends containing polyfunctional acrylates. Polymer Degradation and Stability, 2003, 79, 283-295.	2.7	110
14	Thermoplastic elastomeric composition based on ground rubber tire. Polymer Engineering and Science, 2001, 41, 1087-1098.	1.5	104
15	Synthesis and characterization of acrylic rubber/silica hybrid composites prepared by sol-gel technique. Journal of Applied Polymer Science, 2004, 93, 2579-2589.	1.3	101
16	Synthesis, characterization and properties of a bio-based elastomer: polymyrcene. RSC Advances, 2014, 4, 61343-61354.	1.7	98
17	Effect of Chain Length of Amine and Nature and Loading of Clay on Styrene-Butadiene Rubber-Clay Nanocomposites. Rubber Chemistry and Technology, 2003, 76, 860-875.	0.6	93
18	Ethylene vinyl acetate/expanded graphite nanocomposites by solution intercalation: preparation, characterization and properties. Journal of Materials Science, 2008, 43, 702-708.	1.7	90

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19	Thermoplastic polyurethane and nitrile butadiene rubber blends with layered double hydroxide nanocomposites by solution blending. Polymer International, 2010, 59, 2-10.	1.6	90
20	Preparation and properties of polyurethane nanocomposites of novel architecture as advanced barrier materials. Polymer, 2010, 51, 1100-1110.	1.8	89
21	New Route for Devulcanization of Natural Rubber and the Properties of Devulcanized Rubber. Journal of Polymers and the Environment, 2011, 19, 382-390.	2.4	89
22	Polymer–filler interaction in nanocomposites: New interface area function to investigate swelling behavior and Young's modulus. Polymer, 2008, 49, 4808-4818.	1.8	83
23	Structure and properties of some novel fluoroelastomer/clay nanocomposites with special reference to their interaction. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 162-176.	2.4	82
24	New insights into rubber–clay nanocomposites by AFM imaging. Polymer, 2006, 47, 6156-6166.	1.8	80
25	Effect of the Microstructure of a <i>Hyperbranched</i> Polymer and Nanoclay Loading on the Morphology and Properties of Novel Polyurethane Nanocomposites. ACS Applied Materials & Interfaces, 2009, 1, 289-300.	4.0	79
26	Thermoplastic Elastomeric Blends of Nylon-6/Acrylate Rubber: Influence of Interaction on Mechanical and Dynamic Mechanical Thermal Properties. Rubber Chemistry and Technology, 1997, 70, 798-814.	0.6	78
27	Novel in situ polydimethylsiloxane-sepiolite nanocomposites: Structure-property relationship. Polymer, 2010, 51, 5172-5185.	1.8	77
28	Permeation characteristics and modeling of barrier properties of multifunctional rubber nanocomposites. Polymer, 2011, 52, 1562-1576.	1.8	76
29	Multifunctional Hybrid Materials Based on Carbon Nanotube Chemically Bonded to Reduced Graphene Oxide. Journal of Physical Chemistry C, 2013, 117, 25865-25875.	1.5	75
30	Terpene Based Sustainable Elastomer for Low Rolling Resistance and Improved Wet Grip Application: Synthesis, Characterization and Properties of Poly(styrene- <i>co</i> -myrcene). ACS Sustainable Chemistry and Engineering, 2016, 4, 5462-5474.	3.2	75
31	Degradation of hydrogenated nitrile rubber. Polymer Degradation and Stability, 1991, 31, 71-87.	2.7	74
32	Quantitative Estimation of Filler Distribution in Immiscible Rubber Blends by Mechanical Damping Studies. Rubber Chemistry and Technology, 1992, 65, 293-302.	0.6	74
33	Thermoplastic elastomeric composition based on maleic anhydride-grafted ground rubber tire. Journal of Applied Polymer Science, 2002, 84, 370-378.	1.3	74
34	Tailoring properties of styrene butadiene rubber nanocomposite by various nanofillers and their dispersion. Polymer Engineering and Science, 2009, 49, 81-98.	1.5	73
35	Polymer-filler interactions in sol-gel derived polymer/silica hybrid nanocomposites. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 2399-2412.	2.4	72
36	Compatibilization of natural rubber–polyolefin thermoplastic elastomeric blends by phase modification. Journal of Applied Polymer Science, 1989, 38, 1091-1109.	1.3	71

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37	Thermoplastic elastomers from reclaimed rubber and waste plastics. Journal of Applied Polymer Science, 2002, 83, 2035-2042.	1.3	70
38	Sustainable rubbers and rubber additives. Journal of Applied Polymer Science, 2018, 135, 45701.	1.3	70
39	Synergy in carbon black-filled natural rubber nanocomposites. Part I: Mechanical, dynamic mechanical properties, and morphology. Journal of Materials Science, 2010, 45, 6126-6138.	1.7	69
40	Influence of electron beam irradiation on the mechanical properties and crosslinking of fluorocarbon elastomer. Radiation Physics and Chemistry, 1999, 54, 135-142.	1.4	68
41	Effect of carbon black on properties of rubber nanocomposites. Journal of Applied Polymer Science, 2005, 96, 443-451.	1.3	66
42	Novel nanostructured polyamide 6/fluoroelastomer thermoplastic elastomeric blends: Influence of interaction and morphology on physical properties. Polymer, 2013, 54, 6561-6571.	1.8	66
43	Surface-and bulk-properties of EPDM rubber modified by electron beam irradiation. Radiation Physics and Chemistry, 1998, 53, 63-78.	1.4	65
44	Effect of organo-modified clay on accelerated aging resistance of hydrogenated nitrile rubber nanocomposites and their life time prediction. Polymer Degradation and Stability, 2010, 95, 2555-2562.	2.7	65
45	Effect of nanoclays on physico-mechanical properties and adhesion of polyester-based polyurethane nanocomposites: structure–property correlations. Journal of Materials Science, 2009, 44, 5861-5871.	1.7	64
46	Studies on thermal degradation of short melamine fibre reinforced EPDM, maleated EPDM and nitrile rubber composites. Polymer Degradation and Stability, 2003, 79, 449-463.	2.7	62
47	Thermal and ablative properties of rocket insulator compound based on EPDM. Polymer Degradation and Stability, 1988, 21, 21-28.	2.7	61
48	Novel role of polymer–solvent and clay–solvent interaction parameters on the thermal, mechanical and optical properties of polymer nanocomposites. Polymer, 2009, 50, 201-210.	1.8	60
49	Development of new thermoplastic elastomers from blends of polyethylene and ethylene-vinyl acetate copolymer by electron-beam technology. Journal of Applied Polymer Science, 2001, 79, 1877-1889.	1.3	59
50	Thermal degradation studies of electron beam cured terpolymeric fluorocarbon rubber. Polymer Degradation and Stability, 1999, 63, 413-421.	2.7	58
51	Synthesis and characterization of novel dendritic (arborescent, hyperbranched) polyisobutylene-polystyrene block copolymers. Journal of Polymer Science Part A, 2005, 43, 1811-1826.	2.5	58
52	Influence of number of functional groups of hyperbranched polyol on cure kinetics and physical properties of polyurethanes. Journal of Polymer Science Part A, 2009, 47, 731-745.	2.5	58
53	Unique rheological behavior of rubber based nanocomposites. Journal of Polymer Science, Part B: Polymer Physics, 2005, 43, 1854-1864.	2.4	57
54	Effect of nanoclays on high and low temperature degradation of fluoroelastomers. Polymer Degradation and Stability, 2008, 93, 188-200.	2.7	57

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55	Electron beam irradiated polyamide-6,6 films—l: characterization by wide angle X-ray scattering and infrared spectroscopy. Radiation Physics and Chemistry, 2005, 72, 625-633.	1.4	56
56	Functionalized graphene with polymer as unique strategy in tailoring the properties of bromobutyl rubber nanocomposites. Polymer, 2016, 82, 121-132.	1.8	55
57	Green Approach toward Sustainable Polymer: Synthesis and Characterization of Poly(myrcene- <i>co</i> -dibutyl itaconate). ACS Sustainable Chemistry and Engineering, 2016, 4, 2129-2141.	3.2	55
58	Terpene Based Elastomers: Synthesis, Properties, and Applications. Processes, 2020, 8, 553.	1.3	55
59	Thermogravimetric studies on Polyamide-6,6 modified by electron beam irradiation and by nanofillers. Polymer Degradation and Stability, 2006, 91, 1311-1318.	2.7	54
60	Beneficial Effect of Nanoclay in Atom Transfer Radical Polymerization of Ethyl Acrylate:  A One Pot Preparation of Tailor-Made Polymer Nanocomposite. Macromolecules, 2008, 41, 50-57.	2.2	54
61	Thermoplastic elastomeric nanocomposites from poly[styrene–(ethylene-co-butylene)–styrene] triblock copolymer and clay: Preparation and characterization. Journal of Applied Polymer Science, 2006, 100, 2040-2052.	1.3	53
62	MWCNT reinforced Polyamide-6,6 films: preparation, characterization and properties. Journal of Materials Science, 2007, 42, 923-934.	1.7	53
63	Influence of Different Nanofillers and their Dispersion Methods on the Properties of Natural Rubber Nanocomposites. Rubber Chemistry and Technology, 2008, 81, 782-808.	0.6	53
64	Dynamic vulcanization of novel nanostructured polyamide 6/ fluoroelastomer thermoplastic elastomeric blends with special reference to morphology, physical properties and degree of vulcanization. Polymer, 2015, 57, 105-116.	1.8	53
65	Effect of polymer–clay interaction on solvent transport behavior of fluoroelastomer–clay nanocomposites and prediction of aspect ratio of nanoclay. Journal of Applied Polymer Science, 2007, 105, 435-445.	1.3	52
66	Unique Tackification Behavior of Needle-like Sepiolite Nanoclay in Brominated Isobutylene- <i>co</i> - <i>p</i> -methylstyrene (BIMS) Rubber. Macromolecules, 2010, 43, 4184-4193.	2.2	52
67	Surface properties of EPDM, silicone rubber, and their blend during aging. Journal of Applied Polymer Science, 1995, 57, 631-637.	1.3	51
68	Tailored Nanostructured Thermoplastic Elastomers from Polypropylene and Fluoroelastomer: Morphology and Functional Properties. Industrial & Engineering Chemistry Research, 2015, 54, 8137-8146.	1.8	51
69	Structural characterization of electron-beam crosslinked thermoplastic elastomeric films from blends of polyethylene and ethylene-vinyl acetate copolymers. Journal of Applied Polymer Science, 2001, 81, 1936-1950.	1.3	50
70	Chlorophenyl pendant decorated graphene sheet as a potential antimicrobial agent: synthesis and characterization. Journal of Materials Chemistry, 2012, 22, 22481.	6.7	50
71	Bionanowhiskers from jute: Preparation and characterization. Carbohydrate Polymers, 2013, 92, 1116-1123.	5.1	50
72	Electron beam induced structural modification of a fluorocarbon elastomer in the presence of polyfunctional monomers. Polymer, 1999, 40, 447-458.	1.8	49

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73	An effective strategy to develop nanostructured morphology and enhanced physico-mechanical properties of PP/EPDM thermoplastic elastomers. Journal of Materials Science, 2016, 51, 6722-6734.	1.7	49
74	Sulfonated Styrene-(ethylene-co-butylene)-styrene/Montmorillonite Clay Nanocomposites: Synthesis, Morphology, and Properties. Nanoscale Research Letters, 2008, 3, 36-44.	3.1	48
75	New generation layered nanocomposites derived from ethyleneâ€ <i>co</i> â€vinyl acetate and naturally occurring graphite. Journal of Applied Polymer Science, 2008, 108, 1603-1616.	1.3	48
76	Ageing of rocket insulator compound based on EPDM. Polymer Degradation and Stability, 1986, 16, 221-239.	2.7	47
77	Brominated poly(isobutylene-co-para-methylstyrene) (BIMS)-clay nanocomposites: Synthesis and characterization. Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 4489-4502.	2.4	46
78	Preparation and characterization of nanocomposites based on thermoplastic elastomers from rubber-plastic blends. Journal of Applied Polymer Science, 2006, 99, 1645-1656.	1.3	46
79	Insights into Montmorillonite Nanoclay Based ex Situ Nanocomposites from SEBS and Modified SEBS by Small-Angle X-ray Scattering and Modulated DSC Studies. Macromolecules, 2008, 41, 6246-6253.	2.2	46
80	Analysis of wear characteristics of natural rubber nanocomposites. Wear, 2010, 269, 152-166.	1.5	46
81	HIGH-TEMPERATURE THERMOPLASTIC ELASTOMERS FROM RUBBER–PLASTIC BLENDS: A STATE-OF-THE-ART REVIEW. Rubber Chemistry and Technology, 2017, 90, 1-36.	0.6	46
82	Aging of EPDM rubber. Journal of Applied Polymer Science, 1987, 34, 2205-2222.	1.3	45
83	Influence of Matrix Polarity on the Properties of Ethylene Vinyl Acetate–Carbon Nanofiller Nanocomposites. Nanoscale Research Letters, 2009, 4, 655-664.	3.1	45
84	Heat shrinkability of electron-beam-modified thermoplastic elastomeric films from blends of ethylene-vinylacetate copolymer and polyethylene. Radiation Physics and Chemistry, 2000, 59, 501-510.	1.4	44
85	Dynamic mechanical properties of styrene-butadiene rubber vulcanizate filled with electron beam modified surface-treated dual-phase filler. Journal of Applied Polymer Science, 2003, 88, 2992-3004.	1.3	44
86	Reactive processing of rubber–plastic blends: Role of chemical compatibilizer. Journal of Applied Polymer Science, 1993, 50, 2055-2064.	1.3	43
87	Effect of Nanoclay on the Dynamic Mechanical Properties of Styrene Butadiene and Acrylonitrile Butadiene Rubber Vulcanizates. Rubber Chemistry and Technology, 2005, 78, 321-335.	0.6	43
88	Synthesis, Characterization and Properties of Montmorillonite Clay-Polyacrylate Hybrid Material and its Effect on the Properties of Engage-Clay Hybrid Composite. Rubber Chemistry and Technology, 2001, 74, 835-845.	0.6	42
89	Surface modification of argon/oxygen plasma treated vulcanized ethylene propylene diene polymethylene surfaces for improved adhesion with natural rubber. Applied Surface Science, 2011, 257, 2891-2904.	3.1	42
90	Nanomechanics and Origin of Rubber Elasticity of Novel Nanostructured Thermoplastic Elastomeric Blends Using Atomic Force Microscopy. Macromolecular Chemistry and Physics, 2015, 216, 1666-1674.	1.1	42

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91	Electron beam initiated grafting of trimethylol propane trimethacrylate onto polyethylene—structure and properties. Radiation Physics and Chemistry, 1995, 45, 829-833.	1.4	41
92	Design of a Molecular Architecture via a Green Route for an Improved Silica Reinforced Nanocomposite using Bioresources. ACS Sustainable Chemistry and Engineering, 2018, 6, 6599-6611.	3.2	41
93	Effect of fillers and plasticizers on the performance of novel heat and oil-resistant thermoplastic elastomers from nylon-6 and acrylate rubber blends. Journal of Applied Polymer Science, 1999, 74, 1490-1501.	1.3	40
94	New fluoroelastomer nanocomposites from synthetic montmorillonite. Composites Science and Technology, 2008, 68, 1-9.	3.8	40
95	Effect of microstructure of acrylic copolymer/terpolymer on the properties of silica based nanocomposites prepared by sol–gel technique. Polymer, 2005, 46, 8079-8090.	1.8	39
96	Influence of ZnO nanoparticles on the cure characteristics and mechanical properties of carboxylated nitrile rubber. Journal of Applied Polymer Science, 2007, 106, 3077-3083.	1.3	39
97	Effect of polar modification on morphology and properties of styrene-(ethylene-co-butylene)-styrene triblock copolymer and its montmorillonite clay-based nanocomposites. Journal of Materials Science, 2009, 44, 903-918.	1.7	39
98	Effect of ambient-temperature and high-temperature electron-beam radiation on the structural, thermal, mechanical, and dynamic mechanical properties of injection-molded polyamide-6,6. Journal of Applied Polymer Science, 2006, 99, 1633-1644.	1.3	38
99	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.	5.2	38
100	Synthesis and properties of nanocomposite adhesives. Journal of Adhesion Science and Technology, 2006, 20, 371-385.	1.4	37
101	Ethylene–octene copolymer (engage)–clay nanocomposites: Preparation and characterization. Journal of Applied Polymer Science, 2006, 101, 603-610.	1.3	37
102	Tailorâ€made hybrid nanostructure of poly(ethyl acrylate)/clay by surfaceâ€initiated atom transfer radical polymerization. Journal of Polymer Science Part A, 2008, 46, 5014-5027.	2.5	37
103	Dynamic viscoelastic properties of fluoroelastomer/clay nanocomposites. Polymer Engineering and Science, 2007, 47, 1777-1787.	1.5	36
104	Effect of Various Nanofillers on Thermal Stability and Degradation Kinetics of Polymer Nanocomposites. Journal of Nanoscience and Nanotechnology, 2010, 10, 5056-5071.	0.9	36
105	Graphene Nanocomposites with High Molecular Weight Poly(ε-caprolactone) Grafts: Controlled Synthesis and Accelerated Crystallization. ACS Macro Letters, 2016, 5, 278-282.	2.3	36
106	Structure development during dynamic vulcanization of hydrogenated nitrile rubber/nylon blends. Journal of Applied Polymer Science, 1993, 49, 1893-1900.	1.3	35
107	Electron-beam-initiated grafting of triallyl cyanurate onto polyethylene: Structure and properties. Journal of Applied Polymer Science, 1994, 53, 141-150.	1.3	35
108	Fabrication and Properties of Ethylene Vinyl Acetate-Carbon Nanofiber Nanocomposites. Nanoscale Research Letters, 2008, 3, 508-15.	3.1	35

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109	Redox Emulsion Polymerization of Terpenes: Mapping the Effect of the System, Structure, and Reactivity. Industrial & Engineering Chemistry Research, 2019, 58, 20946-20960.	1.8	35
110	Degradation of Hydrogenated Styrene—Butadiene Rubber at High Temperature. Rubber Chemistry and Technology, 1997, 70, 855-870.	0.6	34
111	Hysteresis loss in filled rubber vulcanizates and its relationship with heat generation. Journal of Applied Polymer Science, 1997, 64, 1541-1555.	1.3	34
112	Influence of dynamic vulcanization and phase interaction on the swelling behavior of the thermoplastic elastomeric blends of nylon-6 and acrylate rubber in various solvents and oil. Journal of Applied Polymer Science, 1998, 69, 2331-2340.	1.3	34
113	Electron beam initiated modification of acrylic elastomer in presence of polyfunctional monomers. Radiation Physics and Chemistry, 2004, 71, 1045-1058.	1.4	34
114	Highly transparent thermoplastic elastomer from isotactic polypropylene and styrene/ethyleneâ€butylene/styrene triblock copolymer: Structureâ€property correlations. Polymer Engineering and Science, 2010, 50, 331-341.	1.5	34
115	Improved dispersion and physicoâ€mechanical properties of rubber/silica composites through new silane grafting. Polymer Engineering and Science, 2020, 60, 3115-3134.	1.5	34
116	Preparation of hydrogenated nitrile rubber using palladium acetate catalyst: Its characterization and kinetics. Journal of Polymer Science Part A, 1992, 30, 471-484.	2.5	33
117	Controlled Synthesis of Nitrogen-Doped Graphene from a Heteroatom Polymer and Its Mechanism of Formation. Chemistry of Materials, 2015, 27, 716-725.	3.2	33
118	Thermoplastic elastomeric blends of poly(ethylene terephthalate) and acrylate rubber: 1. Influence of interaction on thermal, dynamic mechanical and tensile properties. Polymer, 1997, 38, 4337-4344.	1.8	32
119	Thermoplastic elastomeric hydrogenated styrene-butadiene elastomer: Optimization of reaction conditions, thermodynamics, and kinetics. Journal of Applied Polymer Science, 1997, 66, 1151-1162.	1.3	32
120	Phase modification of SEBS block copolymer by different additives and its effect on morphology, mechanical and dynamic mechanical properties. Journal of Applied Polymer Science, 1998, 67, 2015-2025.	1.3	32
121	Novel electron beam-modified surface-coated silica fillers: Physical and chemical characteristics. Journal of Applied Polymer Science, 2002, 83, 2255-2268.	1.3	32
122	Acrylic rubber-fluorocarbon rubber miscible blends: Effect of curatives and fillers on cure, mechanical, aging, and swelling properties. Journal of Applied Polymer Science, 2003, 89, 1442-1452.	1.3	32
123	Thermal Degradation of Elastomer Based Nanocomposites. Polymers and Polymer Composites, 2008, 16, 283-293.	1.0	32
124	Morphology and properties of stearateâ€intercalated layered double hydroxide nanoplateletâ€reinforced thermoplastic polyurethane. Polymer International, 2011, 60, 772-780.	1.6	32
125	An Insight into molecular structure and properties of flexible amorphous polymers: A molecular dynamics simulation approach. Journal of Applied Polymer Science, 2019, 136, 47457.	1.3	32
126	Influence of curative, filler, compatibilizer, domain size, and blend ratio on the dynamic mechanical properties of silicone–EPDM blends. Journal of Applied Polymer Science, 1993, 48, 529-545.	1.3	31

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127	Effect of layered silicate on EPDM/EVA blend nanocomposite: Dynamic mechanical, thermal, and swelling properties. Polymer Composites, 2008, 29, 443-450.	2.3	31
128	Distinct Melt Viscoelastic Properties of Novel Nanostructured and Microstructured Thermoplastic Elastomeric Blends from Polyamide 6 and Fluoroelastomer. Macromolecular Materials and Engineering, 2015, 300, 283-290.	1.7	31
129	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. Polymer, 2016, 99, 21-43.	1.8	31
130	Terpene based sustainable methacrylate copolymer series by emulsion polymerization: Synthesis and structureâ€property relationship. Journal of Polymer Science Part A, 2017, 55, 2639-2649.	2.5	31
131	Electron beam modification and crosslinking: Influence of nitrile and carboxyl contents and level of unsaturation on structure and properties of nitrile rubber. Radiation Physics and Chemistry, 2006, 75, 779-792.	1.4	30
132	Structure-property relationship in sol-gel derived polymer/silica hybrid nanocomposites prepared at various pH. Journal of Materials Science, 2006, 41, 5981-5993.	1.7	30
133	Adhesive tack and green strength of EPDM rubber. Polymer Engineering and Science, 1987, 27, 1195-1202.	1.5	29
134	Nanolamellar triblock of poly- <scp>d,l</scp> -lactide–Î^valerolactone– <scp>d,l</scp> -lactide with tuneable glass transition temperature and crystallinity for use as a drug-delivery vesicle. RSC Advances, 2014, 4, 27439-27451.	1.7	29
135	Effect of filler on the mechanical, dynamic mechanical, and aging properties of binary and ternary blends of acrylic rubber, fluorocarbon rubber, and polyacrylate. Journal of Applied Polymer Science, 2003, 90, 278-286.	1.3	28
136	Novel Thermoplastic Elastomers Based on Acrylonitrile-Butadiene-Styrene Terpolymer (ABS) from Waste Computer Equipment and Nitrile Rubber. Rubber Chemistry and Technology, 2003, 76, 1145-1163.	0.6	28
137	Epoxidized Natural Rubber / Silica Nanoscale Organic-Inorganic Hybrid Composites Prepared by Sol-Gel Technique. Rubber Chemistry and Technology, 2004, 77, 830-846.	0.6	28
138	Morphological mapping and analysis of poly[styrene-b-(ethylene-co-butylene)-b-styrene] and its clay nanocomposites by atomic force microscopy. Journal of Polymer Science, Part B: Polymer Physics, 2007, 45, 52-66.	2.4	28
139	Chlorinated polyethylene nanocomposites: thermal and mechanical behavior. Journal of Materials Science, 2010, 45, 64-73.	1.7	28
140	Structure and properties of tailorâ€made poly(ethyl acrylate)/clay nanocomposites prepared by <i>in situ</i> atom transfer radical polymerization. Journal of Applied Polymer Science, 2008, 108, 2398-2407.	1.3	27
141	Influence of gel and molecular weight on the properties of natural rubber. Polymer, 1986, 27, 1889-1894.	1.8	26
142	Novel Thermoplastic Elastomers from Fluorocarbon Elastomer, Acrylate Rubber and Acrylate Plastics. Rubber Chemistry and Technology, 2001, 74, 662-676.	0.6	26
143	Wear Behavior of Silica Filled Tire Tread Compounds by Various Rock Surfaces. Rubber Chemistry and Technology, 2005, 78, 705-723.	0.6	26
144	Tailor-made poly(ethyl acrylate) by atom transfer radical polymerization. Journal of Polymer Science Part A, 2007, 45, 1661-1669.	2.5	26

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145	Nanoclay distribution and its influence on the mechanical properties of rubber blends. Journal of Applied Polymer Science, 2010, 115, 1237-1246.	1.3	26
146	Computer simulation of thermoplastic elastomers from rubber-plastic blends and comparison with experiments. Polymer, 2016, 103, 233-242.	1.8	26
147	Synthesis and Characterization of a Terpene-Based Sustainable Polymer: Poly-alloocimene. ACS Sustainable Chemistry and Engineering, 2017, 5, 7659-7669.	3.2	26
148	Effect of acrylic copolymer and terpolymer composition on the properties of in-situ polymer/silica hybrid nanocomposites. Journal of Materials Science, 2006, 41, 927-936.	1.7	25
149	XNBR/LDH nanocomposites: Effect of vulcanization and organic modifier on nanofiller dispersion and strainâ€induced crystallization. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 2302-2311.	2.4	25
150	Surface Chlorination of Ground Rubber Tire and its Characterization. Rubber Chemistry and Technology, 2001, 74, 645-661.	0.6	24
151	Effect of reaction parameters on the structure and properties of acrylic rubber/silica hybrid nanocomposites prepared by sol-gel technique. Journal of Applied Polymer Science, 2005, 95, 1418-1429.	1.3	24
152	Rheological Behavior of Hybrid Rubber Nanocomposites. Rubber Chemistry and Technology, 2005, 78, 806-826.	0.6	24
153	Reactive molecular dynamics simulation for analysis of thermal decomposition of oligomeric polyacrylicester model nanocomposite and its experimental verification. Polymer, 2018, 137, 38-53.	1.8	24
154	Influence of highly dispersible silica filler on the physical properties, tearing energy, and abrasion resistance of tire tread compound. Journal of Applied Polymer Science, 2019, 136, 47560.	1.3	24
155	Influence of layered nanofillers on the mechanical properties and thermal degradation of polyacrylicester polymer: Theoretical and experimental investigations. Composites Part B: Engineering, 2019, 169, 65-78.	5.9	24
156	Degradation of silane- and peroxide-cross-linked polyethylene and ethylene propylene rubber. Polymer Degradation and Stability, 1992, 36, 281-289.	2.7	23
157	New composites based on short melamine fiber reinforced epdm rubber. Polymer Composites, 2002, 23, 574-591.	2.3	23
158	Electron-beam modification of nitrile rubber in the presence of polyfunctional monomers. Journal of Applied Polymer Science, 2005, 95, 435-447.	1.3	23
159	Methacrylate/acrylate ABA triblock copolymers by atom transfer radical polymerization; their properties and application as a mediator for organically dispersible gold nanoparticles. Polymer, 2009, 50, 3259-3268.	1.8	23
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