

Vijay Kumar Thakur

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

521
papers

18,587
citations

71
h-index

124
g-index

569
ext. papers

23,115
ext. citations

6.1
avg, IF

7.88
L-index

#	Paper	IF	Citations
521	Recent Progress on Ferroelectric Polymer-Based Nanocomposites for High Energy Density Capacitors: Synthesis, Dielectric Properties, and Future Aspects. <i>Chemical Reviews</i> , 2016 , 116, 4260-317	68.1	909
520	Progress in Green Polymer Composites from Lignin for Multifunctional Applications: A Review. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 1072-1092	8.3	878
519	Processing and characterization of natural cellulose fibers/thermoset polymer composites. <i>Carbohydrate Polymers</i> , 2014 , 109, 102-17	10.3	641
518	Hybrid materials and polymer electrolytes for electrochromic device applications. <i>Advanced Materials</i> , 2012 , 24, 4071-96	24	552
517	Recent progress in cellulose nanocrystals: sources and production. <i>Nanoscale</i> , 2017 , 9, 1763-1786	7.7	545
516	Review: Raw Natural FiberBased Polymer Composites. <i>International Journal of Polymer Analysis and Characterization</i> , 2014 , 19, 256-271	1.7	524
515	Self-healing polymer nanocomposite materials: A review. <i>Polymer</i> , 2015 , 69, 369-383	3.9	469
514	Recent Advances in Graft Copolymerization and Applications of Chitosan: A Review. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 2637-2652	8.3	435
513	Recent advances in green hydrogels from lignin: a review. <i>International Journal of Biological Macromolecules</i> , 2015 , 72, 834-47	7.9	407
512	Recent advances in cellulose and chitosan based membranes for water purification: A concise review. <i>Carbohydrate Polymers</i> , 2016 , 146, 148-65	10.3	341
511	Chemistry, Structures, and Advanced Applications of Nanocomposites from Biorenewable Resources. <i>Chemical Reviews</i> , 2020 , 120, 9304-9362	68.1	256
510	Recent advances in noble metal free doped graphitic carbon nitride based nano hybrids for photocatalysis of organic contaminants in water: A review. <i>Applied Materials Today</i> , 2019 , 15, 494-524	6.6	234
509	Recent trends in hydrogels based on psyllium polysaccharide: a review. <i>Journal of Cleaner Production</i> , 2014 , 82, 1-15	10.3	224
508	Advances in industrial prospective of cellulosic macromolecules enriched banana biofibre resources: A review. <i>International Journal of Biological Macromolecules</i> , 2015 , 79, 449-58	7.9	223
507	Carbon quantum dot supported semiconductor photocatalysts for efficient degradation of organic pollutants in water: A review. <i>Journal of Cleaner Production</i> , 2019 , 228, 755-769	10.3	201
506	Recent progress in sodium alginate based sustainable hydrogels for environmental applications. <i>Journal of Cleaner Production</i> , 2018 , 198, 143-159	10.3	190
505	Rapid synthesis of graft copolymers from natural cellulose fibers. <i>Carbohydrate Polymers</i> , 2013 , 98, 820-80.3	8.0.3	188

504	Graft copolymers of natural fibers for green composites. <i>Carbohydrate Polymers</i> , 2014 , 104, 87-93	10.3	184
503	Synthesis and Applications of Biodegradable Soy Based Graft Copolymers: A Review. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 1-17	8.3	178
502	Recent progress in biodegradable polymers and nanocomposite-based packaging materials for sustainable environment. <i>International Journal of Polymer Analysis and Characterization</i> , 2018 , 23, 383-395	1.7	170
501	Surface functionalization of BaTiO ₃ nanoparticles and improved electrical properties of BaTiO ₃ /polyvinylidene fluoride composite. <i>RSC Advances</i> , 2011 , 1, 576	3.7	166
500	C-, N-Vacancy defect engineered polymeric carbon nitride towards photocatalysis: viewpoints and challenges. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 111-153	13	151
499	Graphene-based polymer nanocomposite membranes: a review. <i>Polymers for Advanced Technologies</i> , 2016 , 27, 844-859	3.2	147
498	Green aqueous surface modification of polypropylene for novel polymer nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 9349-56	9.5	144
497	Graft copolymers from cellulose: synthesis, characterization and evaluation. <i>Carbohydrate Polymers</i> , 2013 , 97, 18-25	10.3	141
496	Surface modification of cellulose using silane coupling agent. <i>Carbohydrate Polymers</i> , 2014 , 111, 849-55	10.3	139
495	Fundamentals and scopes of doped carbon nanotubes towards energy and biosensing applications. <i>Materials Today Energy</i> , 2018 , 9, 154-186	7	135
494	Novel polymer nanocomposites from bioinspired green aqueous functionalization of BNNTs. <i>Polymer Chemistry</i> , 2012 , 3, 962	4.9	130
493	Green aqueous modification of fluoropolymers for energy storage applications. <i>Journal of Materials Chemistry</i> , 2012 , 22, 5951		127
492	Sericin Covalent Immobilization onto Cellulose Acetate Membrane for Biomedical Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 1765-1774	8.3	122
491	Manufacturing and characterization of sustainable hybrid composites using sisal and hemp fibres as reinforcement of poly (lactic acid) via injection moulding. <i>Industrial Crops and Products</i> , 2019 , 137, 260-269	5.9	120
490	Graphite modified sodium alginate hydrogel composite for efficient removal of malachite green dye. <i>International Journal of Biological Macromolecules</i> , 2020 , 148, 1130-1139	7.9	119
489	Sustainability of bioplastics: Opportunities and challenges. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2018 , 13, 68-75	7.9	114
488	Bio-inspired green surface functionalization of PMMA for multifunctional capacitors. <i>RSC Advances</i> , 2014 , 4, 6677	3.7	112
487	Development of functionalized cellulosic biopolymers by graft copolymerization. <i>International Journal of Biological Macromolecules</i> , 2013 , 62, 44-51	7.9	110

486	Progress in lignin hydrogels and nanocomposites for water purification: Future perspectives. <i>Vacuum</i> , 2017 , 146, 342-355	3.7	109
485	Progress in Hydroxyapatite/Starch Based Sustainable Biomaterials for Biomedical Bone Substitution Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 8491-8512	8.3	104
484	Mechanical properties of natural fibre reinforced polymer composites. <i>Bulletin of Materials Science</i> , 2008 , 31, 791-799	1.7	103
483	Poly(vinylidene fluoride)-graft-poly(2-hydroxyethyl methacrylate): a novel material for high energy density capacitors. <i>Journal of Materials Chemistry</i> , 2011 , 21, 3751		101
482	Status and future scope of plant-based green hydrogels in biomedical engineering. <i>Applied Materials Today</i> , 2019 , 16, 213-246	6.6	100
481	Fused deposition modeling-based additive manufacturing (3D printing): techniques for polymer material systems. <i>Materials Today Chemistry</i> , 2020 , 16, 100248	6.2	99
480	Dopant induced hollow BaTiO ₃ nanostructures for application in high performance capacitors. <i>Journal of Materials Chemistry</i> , 2011 , 21, 16500		99
479	Magnetically separable ZnO/ZnFe ₂ O ₄ and ZnO/CoFe ₂ O ₄ photocatalysts supported onto nitrogen doped graphene for photocatalytic degradation of toxic dyes. <i>Arabian Journal of Chemistry</i> , 2020 , 13, 4324-4340	5.9	94
478	Synthesis of lignocellulosic polymer with improved chemical resistance through free radical polymerization. <i>International Journal of Biological Macromolecules</i> , 2013 , 61, 121-6	7.9	91
477	Biopolymers for Biomedical and Pharmaceutical Applications: Recent Advances and Overview of Alginate Electrospinning. <i>Nanomaterials</i> , 2019 , 9,	5.4	88
476	Green Composites from Natural Fibers: Mechanical and Chemical Aging Properties. <i>International Journal of Polymer Analysis and Characterization</i> , 2012 , 17, 401-407	1.7	88
475	Polystyrene grafted polyvinylidene fluoride copolymers with high capacitive performance. <i>Polymer Chemistry</i> , 2011 , 2, 2000	4.9	85
474	Synthesis, Characterization and Study of Pine Needles Reinforced Polymer Matrix Based Composites. <i>Journal of Reinforced Plastics and Composites</i> , 2010 , 29, 700-709	2.9	85
473	Graft Copolymers from Natural Polymers Using Free Radical Polymerization. <i>International Journal of Polymer Analysis and Characterization</i> , 2013 , 18, 495-503	1.7	84
472	Fabrication of dual Z-scheme photocatalyst via coupling of BiOBr/Ag/AgCl heterojunction with P and S co-doped g-C ₃ N ₄ for efficient phenol degradation. <i>Arabian Journal of Chemistry</i> , 2020 , 13, 4538-4552	5.9	84
471	Mechanical, Morphological, and Thermal Characterization of Compression-Molded Polymer Biocomposites. <i>International Journal of Polymer Analysis and Characterization</i> , 2010 , 15, 87-97	1.7	83
470	Surface-Modified Hibiscus sabdariffa Fibers: Physicochemical, Thermal, and Morphological Properties Evaluation. <i>International Journal of Polymer Analysis and Characterization</i> , 2009 , 14, 695-711	1.7	83
469	Chemical Resistance, Mechanical and Physical Properties of Biofibers-Based Polymer Composites. <i>Polymer-Plastics Technology and Engineering</i> , 2009 , 48, 736-744		82

468	Biopolymers Based Green Composites: Mechanical, Thermal and Physico-chemical Characterization. <i>Journal of Polymers and the Environment</i> , 2012 , 20, 412-421	4.5	81
467	Evaluation of adsorption characteristics of an anionic azo dye Brilliant Yellow onto hen feathers in aqueous solutions. <i>Environmental Science and Pollution Research</i> , 2012 , 19, 2438-47	5.1	81
466	4D printing of materials for the future: Opportunities and challenges. <i>Applied Materials Today</i> , 2020 , 18, 100490	6.6	81
465	Recent progress in gelatin hydrogel nanocomposites for water purification and beyond. <i>Vacuum</i> , 2017 , 146, 396-408	3.7	80
464	Synthesis and characterization of short Grewia optiva fiber-based polymer composites. <i>Polymer Composites</i> , 2010 , 31, 459-470	3	80
463	Progress in environmental-friendly polymer nanocomposite material from PLA: Synthesis, processing and applications. <i>Vacuum</i> , 2017 , 146, 655-663	3.7	79
462	Fabrication and Physico-Chemical Properties of High-Performance Pine Needles/Green Polymer Composites. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2013 , 62, 226-230	3	79
461	Synthesis and Characterizations of Silane Treated Grewia optiva Fibers. <i>International Journal of Polymer Analysis and Characterization</i> , 2009 , 14, 301-321	1.7	78
460	Surface Modification of Natural Polymers to Impart Low Water Absorbency. <i>International Journal of Polymer Analysis and Characterization</i> , 2012 , 17, 133-143	1.7	77
459	Graft Copolymerization of Methyl Acrylate onto Cellulosic Biofibers: Synthesis, Characterization and Applications. <i>Journal of Polymers and the Environment</i> , 2012 , 20, 164-174	4.5	76
458	In-Air Graft Copolymerization of Ethyl Acrylate onto Natural Cellulosic Polymers. <i>International Journal of Polymer Analysis and Characterization</i> , 2012 , 17, 48-60	1.7	75
457	Mechanical and Water Absorption Properties of Natural Fibers/Polymer Biocomposites. <i>Polymer-Plastics Technology and Engineering</i> , 2010 , 49, 694-700		75
456	Antibacterial and Antiviral Functional Materials: Chemistry and Biological Activity toward Tackling COVID-19-like Pandemics. <i>ACS Pharmacology and Translational Science</i> , 2021 , 4, 8-54	5.9	75
455	Progress in pectin based hydrogels for water purification: Trends and challenges. <i>Journal of Environmental Management</i> , 2019 , 238, 210-223	7.9	73
454	Ecofriendly Biocomposites from Natural fibers: Mechanical and Weathering study. <i>International Journal of Polymer Analysis and Characterization</i> , 2013 , 18, 64-72	1.7	73
453	Fabrication and characterization of S. cilliare fibre reinforced polymer composites. <i>Bulletin of Materials Science</i> , 2009 , 32, 49-58	1.7	73
452	Physical, Chemical and Mechanical Properties of Hibiscus sabdariffa Fiber/Polymer Composite. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2009 , 58, 217-228	3	73
451	Fabrication and Characterization of H. sabdariffa Fiber-Reinforced Green Polymer Composites. <i>Polymer-Plastics Technology and Engineering</i> , 2009 , 48, 482-487		72

450	Graft copolymerization of methyl methacrylate onto cellulosic biofibers. <i>Journal of Applied Polymer Science</i> , 2011 , 122, 532-544	2.9	71
449	Natural fibres-based polymers: Part I Mechanical analysis of Pine needles reinforced biocomposites. <i>Bulletin of Materials Science</i> , 2010 , 33, 257-264	1.7	71
448	Recent developments in recycling of polystyrene based plastics. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2018 , 13, 32-38	7.9	70
447	X-Ray Diffraction, Morphological, and Thermal Studies on Methylmethacrylate Graft Copolymerized Saccharum ciliare Fiber. <i>International Journal of Polymer Analysis and Characterization</i> , 2008 , 13, 447-462	1.7	70
446	Carbon-Based Polymer Nanocomposite for High-Performance Energy Storage Applications. <i>Polymers</i> , 2020 , 12,	4.5	69
445	Renewable Resource-Based Green Polymer Composites: Analysis and Characterization. <i>International Journal of Polymer Analysis and Characterization</i> , 2010 , 15, 137-146	1.7	69
444	Systematic review on applicability of magnetic iron oxides Integrated photocatalysts for degradation of organic pollutants in water. <i>Materials Today Chemistry</i> , 2019 , 14, 100186	6.2	67
443	Synthesis and Characterization of Grewia Optiva Fiber-reinforced PF-based Composites. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2008 , 57, 1059-1074	3	66
442	Silane Functionalization of Saccharum cilliare Fibers: Thermal, Morphological, and Physicochemical Study. <i>International Journal of Polymer Analysis and Characterization</i> , 2010 , 15, 397-414	1.7	65
441	Morphological, Thermal, and Physicochemical Characterization of Surface Modified Pinus Fibers. <i>International Journal of Polymer Analysis and Characterization</i> , 2009 , 14, 271-289	1.7	65
440	Mechanical, Thermal and Morphological Properties of Grewia Optiva Fiber/Polymer Matrix Composites. <i>Polymer-Plastics Technology and Engineering</i> , 2009 , 48, 201-208		65
439	Recent advances in starch/clay nanocomposites. <i>International Journal of Polymer Analysis and Characterization</i> , 2018 , 23, 331-345	1.7	63
438	Novel nanocomposite membranes from cellulose acetate and clay-silica nanowires. <i>Polymers for Advanced Technologies</i> , 2016 , 27, 1586-1595	3.2	63
437	Cellulose Nanocrystals/Graphene Hybrids-A Promising New Class of Materials for Advanced Applications. <i>Nanomaterials</i> , 2020 , 10,	5.4	63
436	Cellulose nanocrystals: Pretreatments, preparation strategies, and surface functionalization. <i>International Journal of Biological Macromolecules</i> , 2021 , 182, 1554-1581	7.9	61
435	Synthesis, Characterisation and Analysis of Hibiscus Sabdariffa Fibre Reinforced Polymer Matrix Based Composites. <i>Polymers and Polymer Composites</i> , 2009 , 17, 189-194	0.8	58
434	Accelerated microwave curing of fibre-reinforced thermoset polymer composites for structural applications: A review of scientific challenges. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018 , 115, 88-103	8.4	57
433	Piezoelectric Materials for Energy Harvesting and Sensing Applications: Roadmap for Future Smart Materials. <i>Advanced Science</i> , 2021 , 8, e2100864	13.6	57

432	PMMA-g-SOY as a sustainable novel dielectric material. <i>RSC Advances</i> , 2014 , 4, 18240	3.7	55
431	Rapid Synthesis, Characterization, and Physicochemical Analysis of Biopolymer-Based Graft Copolymers. <i>International Journal of Polymer Analysis and Characterization</i> , 2011 , 16, 153-164	1.7	55
430	Synthesis and characterization of cellulose acetate-hydroxyapatite micro and nano composites membranes for water purification and biomedical applications. <i>Vacuum</i> , 2017 , 146, 599-605	3.7	54
429	Natural Cellulosic Polymers as Potential Reinforcement in Composites: Physicochemical and Mechanical Studies. <i>Advances in Polymer Technology</i> , 2013 , 32, E427-E435	1.9	54
428	Mechanical, Morphological and Thermal Properties of Pine Needle-Reinforced Polymer Composites. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2008 , 58, 21-31	3	54
427	Pressure induced graft-co-polymerization of acrylonitrile onto Saccharum cilliare fibre and evaluation of some properties of grafted fibre. <i>Bulletin of Materials Science</i> , 2008 , 31, 7-13	1.7	54
426	Synthesis of Natural Cellulose-Based Graft Copolymers Using Methyl Methacrylate as an Efficient Monomer. <i>Advances in Polymer Technology</i> , 2013 , 32, E741-E748	1.9	53
425	Synthesis and Characterization of Pine Needles Reinforced RF Matrix Based Biocomposites. <i>E-Journal of Chemistry</i> , 2008 , 5, 1055-1062		53
424	Recent advances on water disinfection using bismuth based modified photocatalysts: Strategies and challenges. <i>Journal of Cleaner Production</i> , 2021 , 297, 126617	10.3	53
423	Energy production from steam gasification processes and parameters that contemplate in biomass gasifier - A review. <i>Bioresource Technology</i> , 2020 , 297, 122481	11	51
422	Physicochemical and Mechanical Behavior of Cellulosic Pine Needle-Based Biocomposites. <i>International Journal of Polymer Analysis and Characterization</i> , 2011 , 16, 390-398	1.7	50
421	Fabrication of Ag/AgI/WO ₃ heterojunction anchored P and S co-doped graphitic carbon nitride as a dual Z scheme photocatalyst for efficient dye degradation. <i>Solid State Sciences</i> , 2020 , 100, 106095	3.4	49
420	Multifunctional Polymeric Nanoplatfoms for Brain Diseases Diagnosis, Therapy and Theranostics. <i>Biomedicines</i> , 2020 , 8,	4.8	48
419	Novel Composites from Eco-Friendly Soy Flour/SBS Triblock Copolymer. <i>Macromolecular Materials and Engineering</i> , 2014 , 299, 953-958	3.9	48
418	KPS-Initiated Graft Copolymerization onto Modified Cellulosic Biofibers. <i>International Journal of Polymer Analysis and Characterization</i> , 2010 , 15, 471-485	1.7	48
417	Saccharum Cilliare Fiber Reinforced Polymer Composites. <i>E-Journal of Chemistry</i> , 2008 , 5, 782-791		48
416	Chitosan-based advanced materials for docetaxel and paclitaxel delivery: Recent advances and future directions in cancer theranostics. <i>International Journal of Biological Macromolecules</i> , 2020 , 145, 282-300	7.9	48
415	Rhamnolipid the Glycolipid Biosurfactant: Emerging trends and promising strategies in the field of biotechnology and biomedicine. <i>Microbial Cell Factories</i> , 2021 , 20, 1	6.4	47

414	Electrocatalysts for electrooxidation of direct alcohol fuel cell: chemistry and applications. <i>Materials Today Chemistry</i> , 2019 , 14, 100182	6.2	46
413	Surface defect engineering of metal oxides photocatalyst for energy application and water treatment. <i>Journal of Materiomics</i> , 2021 , 7, 388-418	6.7	46
412	Free Radical Induced Graft Copolymerization onto Natural Fibers. <i>International Journal of Polymer Analysis and Characterization</i> , 2013 , 18, 430-438	1.7	44
411	Cellulose acetate membranes functionalized with resveratrol by covalent immobilization for improved osseointegration. <i>Applied Surface Science</i> , 2018 , 438, 2-13	6.7	44
410	2017 ,		43
409	Novel low-cost hybrid composites from asphaltene/SBS tri-block copolymer with improved thermal and mechanical properties. <i>Journal of Materials Science</i> , 2016 , 51, 2394-2403	4.3	42
408	Pressure Induced Synthesis of EA Grafted Saccharum cilliare Fibers. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2014 , 63, 17-22	3	42
407	Titania modified gum tragacanth based hydrogel nanocomposite for water remediation. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104608	6.8	42
406	Fabrication of efficient CuO / graphitic carbon nitride based heterogeneous photo-Fenton like catalyst for degradation of 2, 4 dimethyl phenol. <i>Chemical Engineering Research and Design</i> , 2020 , 142, 63-75	5.5	41
405	Rapid Synthesis of MMA Grafted Pine Needles Using Microwave Radiation. <i>Polymer-Plastics Technology and Engineering</i> , 2012 , 51, 1598-1604		41
404	Green Composites from Natural Resources		41
403	Tackling COVID-19 pandemic through nanocoatings: Confront and exactitude. <i>Current Research in Green and Sustainable Chemistry</i> , 2020 , 3, 100011	4.1	40
402	Effect of Morphological Changes due to Increasing Carbon Nanoparticles Content on the Quasi-Static Mechanical Response of Epoxy Resin. <i>Polymers</i> , 2018 , 10,	4.5	40
401	Microbial Beta Glucosidase Enzymes: Recent Advances in Biomass Conversation for Biofuels Application. <i>Biomolecules</i> , 2019 , 9,	5.9	39
400	Synthesis and Characterization of AN-g-SOY for Sustainable Polymer Composites. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 2454-2460	8.3	39
399	Hydrothermally Tailored Three-Dimensional Ni-V Layered Double Hydroxide Nanosheets as High-Performance Hybrid Supercapacitor Applications. <i>ACS Omega</i> , 2019 , 4, 3257-3267	3.9	38
398	An overview on WO ₃ based photocatalyst for environmental remediation. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105018	6.8	38
397	Bioprocessing of waste biomass for sustainable product development and minimizing environmental impact. <i>Bioresource Technology</i> , 2021 , 322, 124548	11	38

396	An overview on polymeric carbon nitride assisted photocatalytic CO ₂ reduction: Strategically manoeuvring solar to fuel conversion efficiency. <i>Chemical Engineering Science</i> , 2021 , 230, 116219	4.4	37
395	A review on exergy analysis of solar parabolic collectors. <i>Solar Energy</i> , 2020 , 197, 411-432	6.8	36
394	Analysis and advanced characterization of municipal solid waste vermicompost maturity for a green environment. <i>Journal of Environmental Management</i> , 2020 , 255, 109914	7.9	36
393	Highly effective degradation of imidacloprid by H ₂ O ₂ / fullerene decorated P-doped g-C ₃ N ₄ photocatalyst. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104483	6.8	36
392	Sustainable tetra pak recycled cellulose / Poly(Butylene succinate) based woody-like composites for a circular economy. <i>Journal of Cleaner Production</i> , 2020 , 270, 122321	10.3	35
391	Mycogenic Silver Nanoparticles from Endophytic <i>Trichoderma atroviride</i> with Antimicrobial Activity. <i>Journal of Renewable Materials</i> , 2020 , 8, 171-185	2.4	35
390	Synergistic photocatalytic mitigation of imidacloprid pesticide and antibacterial activity using carbon nanotube decorated phosphorus doped graphitic carbon nitride photocatalyst. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020 , 113, 142-154	5.3	35
389	Recent approaches in guar gum hydrogel synthesis for water purification. <i>International Journal of Polymer Analysis and Characterization</i> , 2018 , 23, 621-632	1.7	35
388	Resilient and agile engineering solutions to address societal challenges such as coronavirus pandemic. <i>Materials Today Chemistry</i> , 2020 , 17, 100300	6.2	34
387	Evaluation of GREWIA OPTIVA Fibers as Reinforcement in Polymer Biocomposites. <i>Polymer-Plastics Technology and Engineering</i> , 2010 , 49, 1101-1107		34
386	Electrospun Piezoelectric Polymer Nanofiber Layers for Enabling in Situ Measurement in High-Performance Composite Laminates. <i>ACS Omega</i> , 2018 , 3, 8891-8902	3.9	34
385	From Wood and Hemp Biomass Wastes to Sustainable Nanocellulose Foams. <i>Industrial Crops and Products</i> , 2021 , 170, 113780	5.9	34
384	Bio-Based Poly(butylene succinate)/Microcrystalline Cellulose/Nanofibrillated Cellulose-Based Sustainable Polymer Composites: Thermo-Mechanical and Biodegradation Studies. <i>Polymers</i> , 2020 , 12,	4.5	33
383	Modification of Natural Biomass by Graft Copolymerization. <i>International Journal of Polymer Analysis and Characterization</i> , 2012 , 17, 547-555	1.7	33
382	Recovery processes of sustainable energy using different biomass and wastes. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 150, 111483	16.2	33
381	Sustainable materials in the removal of pesticides from contaminated water: Perspective on macro to nanoscale cellulose. <i>Science of the Total Environment</i> , 2021 , 797, 149129	10.2	33
380	Facile synthesis and extended visible light activity of oxygen and sulphur co-doped carbon nitride quantum dots modified Bi ₂ MoO ₆ for phenol degradation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020 , 397, 112588	4.7	32
379	Facile extraction, processing and characterization of biorenewable sisal fibers for multifunctional applications. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2016 , 53, 424-432	2.2	31

378	Facile synthesis and characterization of hydroxyapatite particles for high value nanocomposites and biomaterials. <i>Vacuum</i> , 2017 , 146, 614-622	3.7	30
377	Towards sustainable micro and nano composites from fly ash and natural fibers for multifunctional applications. <i>Vacuum</i> , 2017 , 146, 375-385	3.7	30
376	Polysulfone functionalized membranes: Properties and challenges. <i>Materials Today Chemistry</i> , 2020 , 17, 100302	6.2	30
375	Handbook of Sustainable Polymers		30
374	Recent advances in biochar engineering for soil contaminated with complex chemical mixtures: Remediation strategies and future perspectives. <i>Science of the Total Environment</i> , 2021 , 767, 144351	10.2	30
373	Enzymatic engineering of nanometric cellulose for sustainable polypropylene nanocomposites. <i>Industrial Crops and Products</i> , 2021 , 161, 113188	5.9	29
372	2014 ,		28
371	Water desalination using nanocelluloses/cellulose derivatives based membranes for sustainable future. <i>Desalination</i> , 2021 , 520, 115359	10.3	28
370	Synthesis and Characterization of Jellified Composites from Bovine Bone-Derived Hydroxyapatite and Starch as Precursors for Robocasting. <i>ACS Omega</i> , 2018 , 3, 1338-1349	3.9	27
369	Free radical induced graft copolymerization of ethyl acrylate onto SOY for multifunctional materials. <i>Materials Today Communications</i> , 2014 , 1, 34-41	2.5	27
368	Effect of Filler Properties on the Antioxidant Response of Thermoplastic Starch Composites 2017 , 337-369		27
367	Cellulosic biomass-based sustainable hydrogels for wastewater remediation: Chemistry and prospective. <i>Fuel</i> , 2022 , 309, 122114	7.1	27
366	Recent progress on bismuth-based Z-scheme semiconductor photocatalysts for energy and environmental applications. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104505	6.8	27
365	Adding value to poly (butylene succinate) and nanofibrillated cellulose-based sustainable nanocomposites by applying masterbatch process. <i>Industrial Crops and Products</i> , 2021 , 169, 113669	5.9	27
364	Trends in renewable energy production employing biomass-based biochar. <i>Bioresource Technology</i> , 2021 , 340, 125644	11	27
363	Grewia optiva Fiber Reinforced Novel, Low Cost Polymer Composites. <i>E-Journal of Chemistry</i> , 2009 , 6, 71-76		26
362	Chemical Functionalization of Carbon Nanomaterials		26
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93	Cellulose Whisker-Based Green Polymer Composites ⁴⁶¹⁻⁴⁹⁴		1
92	Performance of Regenerated Cellulose Nanocomposites Fabricated via Ionic Liquid Based on Halloysites and Vermiculite ²⁴⁹⁻²⁷³		1
91	Pharmaceutical Delivery Systems Composed of Chitosan ²⁸⁵⁻³⁰⁸		1

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62	Composites Based on Hydroxyapatite and Biodegradable Polylactide 2017 , 183-214		
61	Recent Advances in Conductive Composites Based on Biodegradable Polymers for Regenerative Medicine Applications 2017 , 519-542		
60	Poly (Lactic Acid) Nanocomposites Reinforced with Different Additives 2017 , 495-522		
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- 54 Pineapple Leaf Fiber: A High Potential Reinforcement for Green Rubber and Plastic Composites **2017**, 289-308
- 53 Recycling and Reuse of Fiber Reinforced Polymer Wastes in Concrete Composite Materials **2017**, 155-173
- 52 Impact of Nanotechnology on Water Treatment: Carbon Nanotube and Graphene **2017**, 171-206
- 51 Chitosan Metal Nanocomposites: Synthesis, Characterization, and Applications **2017**, 451-464
- 50 Carbon Fibers from Sustainable Resources **2017**, 1-23
- 49 Principle Renewable Biopolymers and Their Biomedical Applications **2017**, 107-138
- 48 Insights into the Structure of Proteins Adsorbed onto Bioactive Glasses **2017**, 309-335
- 47 Biodegradable Polymers for Protein and Peptide Therapeutics: Next Generation Delivery Systems **2017**, 483-541
- 46 Composites Using Agricultural Wastes **2017**, 197-240
- 45 Manufacturing of Rice Waste-Based Natural Fiber Polymer Composites from Thermosetting vs. Thermoplastic Matrices **2017**, 241-262
- 44 Packaging Composite Materials from Renewable Resources **2017**, 525-561
- 43 Multicarboxyl -Functionalized Nanocellulose/Nanobentonite Composite for the Effective Removal and Recovery of Uranium (VI), Thorium (IV), and Cobalt (II) from Nuclear Industry Effluents and Sea Water **2017**, 465-486
- 42 Natural Fiber Composite Strengthening Solution for Structural Beam Component for Enhanced Flexural Strength, as Alternatives to CFRP and GFRP Strengthening Techniques **2017**, 449-473
- 41 Design and Manufacturing of Sustainable Composites **2017**, 533-601
- 40 Structural and Biodegradation Characterization of Supramolecular PCL/HAp Nanocomposites for Application in Tissue Engineering **2017**, 1-24
- 39 Poly (ethylene-terephthalate) Reinforced with Hemp Fibers: Elaboration, Characterization, and Potential Applications **2017**, 43-68
- 38 Poly (Lactic Acid) Thermoplastic Composites from Renewable Materials **2017**, 69-102
- 37 Impact of Recycling on the Mechanical and Thermo-Mechanical Properties of Wood Fiber Based HDPE and PLA Composites **2017**, 271-291

- 36 Novel pH Sensitive Composite Hydrogel Based on Functionalized Starch/clay for the Controlled Release of Amoxicillin **2017**, 409-424
- 35 A Biopolymer Derived from Castor Oil Polyurethane: Experimental and Numerical Analyses **2017**, 581-606
- 34 Natural Polymer-Based Biomaterials and its Properties **2017**, 607-629
- 33 Physical and Mechanical Properties of Polymer Membranes from Renewable Resources **2017**, 631-651
- 32 Pyridine and Bipyridine End-Functionalized Polylactide: Synthesis and Catalytic Applications **2017**, 47-67
- 31 Functional Separation Membranes from Chitin and Chitosan Derivatives **2017**, 69-120
- 30 Acrylated Epoxidized Flaxseed Oil Bio-Resin and Its Biocomposites **2017**, 121-142
- 29 Encapsulation of Inorganic Renewable Nanofiller **2017**, 143-164
- 28 Chitosan Coating on Textile Fibers for Functional Properties **2017**, 165-197
- 27 Surface Functionalization Through Vapor-Phase-Assisted Surface Polymerization (VASP) on Natural Materials from Agricultural By-Products **2017**, 355-377
- 26 Composites of Olefin Polymer/Natural Fibers: The Surface Modifications on Natural Fibers **2017**, 431-456
- 25 Role of Radiation and Surface Modification on Biofiber for Reinforced Polymer Composites: A Review **2017**, 541-562
- 24 Effect of Surface Modification of Natural Cellulosic Fibers on the Dielectric and Mechanical Properties of Polymer Composites **2015**, 401-418
- 23 Effect of Chemical Functionalization on Functional Properties of Cellulosic Fiber-Reinforced Polymer Composites **2014**, 281-299
- 22 Surface Modification Strategies for Cellulosic Fibers **2014**, 271-280
- 21 Carbon Allotropes and Fascinated Nanostructures: The High-Impact Engineering Materials of the Millennium **2015**, 2-27
- 20 Information About the Series 529-529
- 19 Eco-Friendly Polymer-Based Nanocomposites for Pharmaceutical Applications 341-371

- 18 PLA Nanocomposites: A Promising Material for Future from Renewable Resources 259-274
- 17 Influence of the Use of Natural Fibers in Composite Materials Assessed on a Life Cycle Perspective 377-398
- 16 Starch -Based Biomaterials and Nanocomposites 623-636
- 15 Determination of Properties in Composites of Agave Fiber with LDPE and PP Applied Molecular Simulation 31-58
- 14 Virgin and Recycled Polymers Applied to Advanced Nanocomposites 1-13
- 13 Synthesis and Medicinal Properties of Polycarbonates and Resins from Renewable Sources 363-379
- 12 Keratin as Renewable Material to Develop Polymer Composites: Natural and Synthetic Matrices 1-29
- 11 Hydrogels in Tissue Engineering 59-78
- 10 Nanomaterials : An Advanced and Versatile Nanoadditive for Kraft and Paper Industries 305-326
- 9 Starch -Based Bionanocomposites 121-153
- 8 Biodegradable Polymer/Carbon Nanotube Composites for Water and Wastewater Treatments 15-33
- 7 Preparation, Structure, Properties, and Interactions of the PVA/Cellulose Composites 275-297
- 6 Cellulose -Containing Scaffolds Fabricated by Electrospinning: Applications in Tissue Engineering and Drug Delivery 361-388
- 5 Organic -Inorganic Nanocomposites Derived from Polysaccharides: Challenges and Opportunities 409-432
- 4 Study of Chitosan Cross-Linking Genipin Hydrogels for Absorption of Antifungal Drugs Using Molecular Modeling 255-284
- 3 Preparation, Characterization, and Adsorption Properties of Poly(DMAEA) /Cross-Linked Starch Gel Copolymer in Wastewater 233-254
- 2 Chemical Functionalization of Cellulosic Fibers for Green Polymer Composites Applications **2014**, 233-250
- 1 Thermal Degradation of a Phenolic Resin, Vegetable Fibers, and Derived Composites. *Composites Science and Technology*, **2021**, 179-213

