

Vijay Kumar Thakur

List of Publications by Year in Descending Order

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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 | Graphitic carbon nitride based palladium nanoparticles: A homemade anode electrode catalyst for efficient direct methanol fuel cells application. <i>Materials Today: Proceedings</i> , 2022 , | 1.4 | 4 |
| 520 | Synthesis and Characterisation of Zinc Oxide Modified Biorenewable Polysaccharides based Sustainable Hydrogel Nanocomposite for Hg ion Removal: Towards a Circular Bioeconomy.. <i>Bioresource Technology</i> , 2022 , 126708 | 11 | 3 |
| 519 | Zinc associated nanomaterials and their intervention in emerging respiratory viruses: Journey to the field of biomedicine and biomaterials.. <i>Coordination Chemistry Reviews</i> , 2022 , 457, 214402 | 23.2 | 4 |
| 518 | Synergistic photocatalytic dye mitigation and bacterial disinfection using carbon quantum dots decorated dual Z-scheme Manganese Indium Sulfide/Cuprous Oxide/Silver oxide heterojunction. <i>Materials Letters</i> , 2022 , 313, 131716 | 3.3 | 10 |
| 517 | Role of Silver Nanoparticle-Doped 2-Aminodiphenylamine Polymeric Material in the Detection of Dopamine (DA) with Uric Acid Interference.. <i>Materials</i> , 2022 , 15, | 3.5 | 1 |
| 516 | Brewer's spent grains-based biorefineries: A critical review. <i>Fuel</i> , 2022 , 317, 123435 | 7.1 | 3 |
| 515 | Aptameric nanobiosensors for the diagnosis of COVID-19: An update. <i>Materials Letters</i> , 2022 , 308, 1312373 | 3.3 | 3 |
| 514 | Emerging architecture titanium carbide (TiCT) MXene based photocatalyst toward degradation of hazardous pollutants: Recent progress and perspectives.. <i>Chemosphere</i> , 2022 , 293, 133541 | 8.4 | 3 |
| 513 | Integration of biological control with engineered heterojunction nano-photocatalysts for sustainable and effective management of water hyacinth weed. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 106976 | 6.8 | 3 |
| 512 | Next-generation high-performance sustainable hybrid composite materials from silica-rich granite waste particulates and jute textile fibres in epoxy resin. <i>Industrial Crops and Products</i> , 2022 , 177, 114527 | 5.9 | 1 |
| 511 | Sugar beet pulp: Resurgence and trailblazing journey towards a circular bioeconomy. <i>Fuel</i> , 2022 , 312, 122953 | 7.1 | 6 |
| 510 | Novel synthesis methods and applications of MXene-based nanomaterials (MBNs) for hazardous pollutants degradation: Future perspectives.. <i>Chemosphere</i> , 2022 , 293, 133542 | 8.4 | 7 |
| 509 | Perovskite oxides for oxygen transport: Chemistry and material horizons. <i>Science of the Total Environment</i> , 2022 , 806, 151213 | 10.2 | 13 |
| 508 | Synthesis of Bio-based monomers and polymers using microbes for a sustainable bioeconomy. <i>Bioresource Technology</i> , 2022 , 344, 126156 | 11 | 12 |
| 507 | On the graphene and its derivative based polymer nanocomposites for glucose sensing. <i>Materials Letters</i> , 2022 , 307, 130971 | 3.3 | 7 |
| 506 | Microbial desalination cell: Desalination through conserving energy. <i>Desalination</i> , 2022 , 521, 115381 | 10.3 | 10 |
| 505 | Cellulosic biomass-based sustainable hydrogels for wastewater remediation: Chemistry and prospective. <i>Fuel</i> , 2022 , 309, 122114 | 7.1 | 27 |

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| 504 | Lead removal from synthetic wastewater by biosorbents prepared from seeds of <i>Artocarpus Heterophyllus</i> and <i>Syzygium Cumini</i> . <i>Chemosphere</i> , 2022 , 287, 132016 | 8.4 | 7 |
| 503 | Latest Expansions in Lipid Enhancement of Microalgae for Biodiesel Production: An Update. <i>Energies</i> , 2022 , 15, 1550 | 3.1 | 1 |
| 502 | Graphene: Chemistry and Applications for Lithium-Ion Batteries. <i>Electrochem</i> , 2022 , 3, 143-183 | 2.9 | 1 |
| 501 | Development of an Injectable Shear-Thinning Nanocomposite Hydrogel for Cardiac Tissue Engineering.. <i>Gels</i> , 2022 , 8, | 4.2 | 2 |
| 500 | Valorisation of algal biomass to value-added metabolites: emerging trends and opportunities.. <i>Phytochemistry Reviews</i> , 2022 , 1-26 | 7.7 | 3 |
| 499 | In-situ synthesizing carbon nanotubes on cement to develop self-sensing cementitious composites for smart high-speed rail infrastructures. <i>Nano Today</i> , 2022 , 43, 101438 | 17.9 | 8 |
| 498 | Doxorubicin-loaded graphene oxide nanocomposites in cancer medicine: Stimuli-responsive carriers, co-delivery and suppressing resistance.. <i>Expert Opinion on Drug Delivery</i> , 2022 , | 8 | 5 |
| 497 | Recent developments in microbial degradation of polypropylene: Integrated approaches towards a sustainable environment.. <i>Science of the Total Environment</i> , 2022 , 154056 | 10.2 | 1 |
| 496 | Use of biomass-derived biochar in wastewater treatment and power production: A promising solution for a sustainable environment.. <i>Science of the Total Environment</i> , 2022 , 825, 153892 | 10.2 | 6 |
| 495 | Food Fermentation - Significance to public health and sustainability challenges of modern diet and food systems.. <i>International Journal of Food Microbiology</i> , 2022 , 371, 109666 | 5.8 | 1 |
| 494 | Recent advances of carbon-based nanomaterials (CBNMs) for wastewater treatment: Synthesis and application.. <i>Chemosphere</i> , 2022 , 299, 134364 | 8.4 | 2 |
| 493 | Cellulosic fibres-based epoxy composites: From bioresources to a circular economy. <i>Industrial Crops and Products</i> , 2022 , 182, 114895 | 5.9 | 5 |
| 492 | Development of paper-based DNA sensor for detection of <i>O. tsutsugamushi</i> using sustainable GQDs@AuNPs nanocomposite.. <i>Chemosphere</i> , 2022 , 300, 134428 | 8.4 | 2 |
| 491 | Advanced thermochemical conversion technologies used for energy generation: Advancement and prospects. <i>Fuel</i> , 2022 , 321, 124107 | 7.1 | 3 |
| 490 | Acrylation of biomass: a review of synthesis process know how and future application directions. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2022 , 100626 | 7.9 | 0 |
| 489 | Biogenic Preparation, Characterization, and Biomedical Applications of Chitosan Functionalized Iron Oxide Nanocomposite. <i>Journal of Composites Science</i> , 2022 , 6, 120 | 3 | 1 |
| 488 | Prism-like integrated BiWO ₄ with Ag-CuBiO on carbon nanotubes (CNTs) as an efficient and robust S-scheme interfacial charge transfer photocatalyst for the removal of organic pollutants from wastewater.. <i>Environmental Science and Pollution Research</i> , 2022 , 1 | 5.1 | 2 |
| 487 | Highly efficient poly(acrylic acid-co-aniline) grafted itaconic acid hydrogel: Application in water retention and adsorption of rhodamine B dye for a sustainable environment.. <i>Chemosphere</i> , 2022 , 134917 | 8.4 | 0 |

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| 486 | Biocomposite composting based on the sugar-protein condensation theory. <i>Industrial Crops and Products</i> , 2022 , 183, 114974 | 5.9 | 0 |
| 485 | Recent advances in electrochemical-based sensors amplified with carbon-based nanomaterials (CNMs) for sensing pharmaceutical and food pollutants. <i>Chemosphere</i> , 2022 , 135182 | 8.4 | 2 |
| 484 | Quantum Dots: Synthesis, Antibody Conjugation, and HER2-Receptor Targeting for Breast Cancer Therapy.. <i>Journal of Functional Biomaterials</i> , 2021 , 12, | 4.8 | 2 |
| 483 | Porphyrin-Based Nanostructures for Cancer Theranostics: Chemistry, Fundamentals and Recent Advances. <i>ChemistrySelect</i> , 2021 , 6, 14082-14099 | 1.8 | 2 |
| 482 | Towards Impact of Modified Atmosphere Packaging (MAP) on Shelf-Life of Polymer-Film-Packed Food Products: Challenges and Sustainable Developments. <i>Coatings</i> , 2021 , 11, 1504 | 2.9 | 3 |
| 481 | Amino Acids, Peptides, and Proteins: Implications for Nanotechnological Applications in Biosensing and Drug/Gene Delivery. <i>Nanomaterials</i> , 2021 , 11, | 5.4 | 11 |
| 480 | Carbon Nitride/Metal Oxide Hybrids for Visible Light Harvesting and Water Remediation. <i>Environmental Chemistry for A Sustainable World</i> , 2021 , 53-79 | 0.8 | 2 |
| 479 | Efficient Carbon Nanocomposites as a Sustainable Adsorbents/Photocatalyst for Water Purification. <i>Green Energy and Technology</i> , 2021 , 175-202 | 0.6 | 1 |
| 478 | Towards the use of acrylic acid graft-copolymerized plant biofiber in sustainable fortified composites: Manufacturing and characterization. <i>E-Polymers</i> , 2021 , 21, 881-896 | 2.7 | 0 |
| 477 | Recent Advancements in the Technologies Detecting Food Spoiling Agents.. <i>Journal of Functional Biomaterials</i> , 2021 , 12, | 4.8 | 1 |
| 476 | Current status on designing of dual Z-scheme photocatalysts for energy and environmental applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 106, 340-340 | 6.3 | 5 |
| 475 | Salinity Stress: Toward Sustainable Plant Strategies and Using Plant Growth-Promoting Rhizobacteria Encapsulation for Reducing It. <i>Sustainability</i> , 2021 , 13, 12758 | 3.6 | 2 |
| 474 | Recent advances in the application of biochar in microbial electrochemical cells. <i>Fuel</i> , 2021 , 311, 122501 | 7.1 | 5 |
| 473 | Methods of preparation of metal-doped and hybrid tungsten oxide nanoparticles for anticancer, antibacterial, and biosensing applications. <i>Surfaces and Interfaces</i> , 2021 , 28, 101641 | 4.1 | 4 |
| 472 | Valorisation of CO ₂ into Value-Added Products via Microbial Electrosynthesis (MES) and Electro-Fermentation Technology. <i>Fermentation</i> , 2021 , 7, 291 | 4.7 | 3 |
| 471 | Valorization of dairy waste and by-products through microbial bioprocesses. <i>Bioresource Technology</i> , 2021 , 126444 | 11 | 4 |
| 470 | Bentonite-based sodium alginate/ dextrin cross-linked poly (acrylic acid) hydrogel nanohybrids for facile removal of paraquat herbicide from aqueous solutions. <i>Chemosphere</i> , 2021 , 291, 133002 | 8.4 | 6 |
| 469 | Photocatalytic Inactivation of Viruses Using Graphitic Carbon Nitride-Based Photocatalysts: Virucidal Performance and Mechanism. <i>Catalysts</i> , 2021 , 11, 1448 | 4 | 4 |

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| 468 | Lignin and Xylan as Interface Engineering Additives for Improved Environmental Durability of Sustainable Cellulose Nanopapers. <i>International Journal of Molecular Sciences</i> , 2021 , 22, | 6.3 | 2 |
| 467 | Crown Ether-Immobilized Cellulose Acetate Membranes for the Retention of Gd (III). <i>Polymers</i> , 2021 , 13, | 4.5 | 1 |
| 466 | Synthesis and overview of carbon-based materials for high performance energy storage application: A review. <i>Materials Today: Proceedings</i> , 2021 , | 1.4 | 3 |
| 465 | On the incorporation of nano TiO ₂ to inhibit concrete deterioration in the marine environment. <i>Nanotechnology</i> , 2021 , | 3.4 | 1 |
| 464 | Valorization of sugar beet pulp to value-added products: A review.. <i>Bioresource Technology</i> , 2021 , 346, 126580 | 11 | 5 |
| 463 | 4D Printing of Smart Polymer Nanocomposites: Integrating Graphene and Acrylate Based Shape Memory Polymers. <i>Polymers</i> , 2021 , 13, | 4.5 | 5 |
| 462 | Encapsulation of Plant Biocontrol Bacteria with Alginate as a Main Polymer Material. <i>International Journal of Molecular Sciences</i> , 2021 , 22, | 6.3 | 11 |
| 461 | Synthesis and Characterization of Novel Fe ₃ O ₄ /PVA/Eggshell Hybrid Nanocomposite for Photodegradation and Antibacterial Activity. <i>Journal of Composites Science</i> , 2021 , 5, 267 | 3 | 1 |
| 460 | Self-switchable polymer reactor with PNIPAM-PAm smart switch capable of tandem/simple catalysis. <i>Polymer</i> , 2021 , 235, 124265 | 3.9 | 4 |
| 459 | Bio-based poly (butylene succinate): Recent progress, challenges and future opportunities. <i>European Polymer Journal</i> , 2021 , 161, 110855 | 5.2 | 12 |
| 458 | Host miRNA and immune cell interactions: relevance in nano-therapeutics for human health. <i>Immunologic Research</i> , 2021 , 1 | 4.3 | 1 |
| 457 | 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 |
| 456 | Enzymatic engineering of nanometric cellulose for sustainable polypropylene nanocomposites. <i>Industrial Crops and Products</i> , 2021 , 161, 113188 | 5.9 | 29 |
| 455 | Synthesis of Curcumin Loaded Smart pH-Responsive Stealth Liposome as a Novel Nanocarrier for Cancer Treatment. <i>Fibers</i> , 2021 , 9, 19 | 3.7 | 7 |
| 454 | Recent advances in silver bromide-based Z-scheme photocatalytic systems for environmental and energy applications: A review. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105157 | 6.8 | 14 |
| 453 | 4D printed stereolithography printed plant-based sustainable polymers: Preliminary investigation and optimization. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50903 | 2.9 | 7 |
| 452 | Understanding the cross-talk between human microbiota and gastrointestinal cancer for developing potential diagnostic and prognostic biomarkers. <i>Seminars in Cancer Biology</i> , 2021 , | 12.7 | 9 |
| 451 | A Strategy to Develop Efficient Ag ₃ PO ₄ -based Photocatalytic Materials Toward Water Splitting: Perspectives and Challenges. <i>ChemCatChem</i> , 2021 , 13, 2965-2987 | 5.2 | 8 |

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| 450 | 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 |
| 449 | 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 |
| 448 | Biopolymers for Biological Control of Plant Pathogens: Advances in Microencapsulation of Beneficial Microorganisms. <i>Polymers</i> , 2021 , 13, | 4.5 | 8 |
| 447 | Functionalized upconversion nanoparticles: New strategy towards FRET-based luminescence bio-sensing. <i>Coordination Chemistry Reviews</i> , 2021 , 436, 213821 | 23.2 | 17 |
| 446 | Evolution and new horizons in modeling crack mechanics of 3D printing polymeric structures. <i>Materials Today Chemistry</i> , 2021 , 20, 100393 | 6.2 | 4 |
| 445 | Recent advances in microbial toxin-related strategies to combat cancer. <i>Seminars in Cancer Biology</i> , 2021 , | 12.7 | 8 |
| 444 | Cellulose nanocrystals: Pretreatments, preparation strategies, and surface functionalization. <i>International Journal of Biological Macromolecules</i> , 2021 , 182, 1554-1581 | 7.9 | 61 |
| 443 | 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 |
| 442 | Hydrogel of gelatin in the presence of graphite for the adsorption of dye: Towards the concept for water purification. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104762 | 6.8 | 14 |
| 441 | Insights into the synthesis and mechanism of green synthesized antimicrobial nanoparticles, answer to the multidrug resistance. <i>Materials Today Chemistry</i> , 2021 , 19, 100391 | 6.2 | 14 |
| 440 | Green chemistry approaches towards the design and synthesis of anti-infective fluoroquinolone derivatives. <i>Current Research in Green and Sustainable Chemistry</i> , 2021 , 4, 100044 | 4.1 | 3 |
| 439 | 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 |
| 438 | 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 |
| 437 | Titania modified gum tragacanth based hydrogel nanocomposite for water remediation. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104608 | 6.8 | 42 |
| 436 | Future Perspectives for Gel-Inks for 3D Printing in Tissue Engineering. <i>Gels Horizons: From Science To Smart Materials</i> , 2021 , 383-395 | | 0 |
| 435 | 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 |
| 434 | Biosafe sustainable antimicrobial encapsulation and coatings for targeted treatment and infections prevention: Preparation for another pandemic. <i>Current Research in Green and Sustainable Chemistry</i> , 2021 , 4, 100074 | 4.1 | 4 |
| 433 | The bright side of cellulosic hibiscus sabdariffa fibres: towards sustainable materials from the macro- to nano-scale. <i>Materials Advances</i> , 2021 , 2, 4945-4965 | 3.3 | 7 |

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| 432 | An overview of converting reductive photocatalyst into all solid-state and direct Z-scheme system for water splitting and CO2 reduction. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 93, 1-27 | 6.3 | 17 |
| 431 | Tailoring of Thermo-Mechanical Properties of Hybrid Composite-Metal Bonded Joints. <i>Polymers</i> , 2021 , 13, | 4.5 | 2 |
| 430 | Indium sulfide-based photocatalysts for hydrogen production and water cleaning: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 1065-1095 | 13.3 | 24 |
| 429 | Advances in the Structural Composition of Biomass: Fundamental and Bioenergy Applications. <i>Journal of Renewable Materials</i> , 2021 , 9, 615-636 | 2.4 | 2 |
| 428 | Recent advancements in transparent carbon nanotube films: chemistry and imminent challenges. <i>Journal of Nanostructure in Chemistry</i> , 2021 , 11, 93-130 | 7.6 | 17 |
| 427 | An overview on WO3 based photocatalyst for environmental remediation. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105018 | 6.8 | 38 |
| 426 | Bioprocessing of waste biomass for sustainable product development and minimizing environmental impact. <i>Bioresource Technology</i> , 2021 , 322, 124548 | 11 | 38 |
| 425 | Towards Next-Generation Sustainable Composites Made of Recycled Rubber, Cenospheres, and Biobinder. <i>Polymers</i> , 2021 , 13, | 4.5 | 9 |
| 424 | Understanding the Therapeutic Potential of Ascorbic Acid in the Battle to Overcome Cancer. <i>Biomolecules</i> , 2021 , 11, | 5.9 | 4 |
| 423 | Piezoelectric Materials for Energy Harvesting and Sensing Applications: Roadmap for Future Smart Materials. <i>Advanced Science</i> , 2021 , 8, e2100864 | 13.6 | 57 |
| 422 | Minimizing hazardous impact of food waste in a circular economy - Advances in resource recovery through green strategies. <i>Journal of Hazardous Materials</i> , 2021 , 416, 126154 | 12.8 | 15 |
| 421 | Aminopropyltriethoxysilane as a linker for cellulose-based functional materials: New horizons and future challenges. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2021 , 30, 100480 | 7.9 | 10 |
| 420 | Constructing a novel all-solid-state Z-scheme BiVO4/CQDs/FeVO4 photocatalyst and its enhancement to the photocatalytic activity. <i>Materials Letters</i> , 2021 , 297, 129940 | 3.3 | 3 |
| 419 | Theranostic Advances of Bionanomaterials against Gestational Diabetes Mellitus: A Preliminary Review. <i>Journal of Functional Biomaterials</i> , 2021 , 12, | 4.8 | 5 |
| 418 | Nanomaterials in the Management of Gram-Negative Bacterial Infections. <i>Nanomaterials</i> , 2021 , 11, | 5.4 | 12 |
| 417 | Recent Advances in Cardiac Tissue Engineering for the Management of Myocardium Infarction. <i>Cells</i> , 2021 , 10, | 7.9 | 8 |
| 416 | Thrombolytic Enzymes of Microbial Origin: A Review. <i>International Journal of Molecular Sciences</i> , 2021 , 22, | 6.3 | 2 |
| 415 | 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 |

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| 4 ¹⁴ | Recovery processes of sustainable energy using different biomass and wastes. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 150, 111483 | 16.2 | 33 |
| 4 ¹³ | Visible light-conducting polymer nanocomposites as efficient photocatalysts for the treatment of organic pollutants in wastewater. <i>Journal of Environmental Management</i> , 2021 , 295, 113362 | 7.9 | 14 |
| 4 ¹² | An overview of heterojunctioned ZnFe ₂ O ₄ photocatalyst for enhanced oxidative water purification. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105812 | 6.8 | 15 |
| 4 ¹¹ | From Wood and Hemp Biomass Wastes to Sustainable Nanocellulose Foams. <i>Industrial Crops and Products</i> , 2021 , 170, 113780 | 5.9 | 34 |
| 4 ¹⁰ | Recent advances in bio-electrochemical system analysis in biorefineries. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105982 | 6.8 | 10 |
| 4 ⁰⁹ | Green chemistry approaches for thiazole containing compounds as a potential scaffold for cancer therapy. <i>Sustainable Chemistry and Pharmacy</i> , 2021 , 23, 100496 | 3.9 | 2 |
| 4 ⁰⁸ | Key ingredients and recycling strategy of personal protective equipment (PPE): Towards sustainable solution for the COVID-19 like pandemics. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106284 | 6.8 | 9 |
| 4 ⁰⁷ | Cellulosic Grewia Optiva fibres: Towards chemistry, surface engineering and sustainable materials. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106059 | 6.8 | 17 |
| 4 ⁰⁶ | Trends in renewable energy production employing biomass-based biochar. <i>Bioresource Technology</i> , 2021 , 340, 125644 | 11 | 27 |
| 4 ⁰⁵ | Hyaluronic acid-based nanoplatfoms for Doxorubicin: A review of stimuli-responsive carriers, co-delivery and resistance suppression. <i>Carbohydrate Polymers</i> , 2021 , 272, 118491 | 10.3 | 25 |
| 4 ⁰⁴ | Controllable functionalization of g-C ₃ N ₄ mediated all-solid-state (ASS) Z-scheme photocatalysts towards sustainable energy and environmental applications. <i>Environmental Technology and Innovation</i> , 2021 , 24, 101972 | 7 | 3 |
| 4 ⁰³ | 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 |
| 4 ⁰² | AIE-featured tetraphenylethylene nanoarchitectures in biomedical application: Bioimaging, drug delivery and disease treatment. <i>Coordination Chemistry Reviews</i> , 2021 , 447, 214135 | 23.2 | 14 |
| 4 ⁰¹ | Water desalination using nanocelluloses/cellulose derivatives based membranes for sustainable future. <i>Desalination</i> , 2021 , 520, 115359 | 10.3 | 28 |
| 4 ⁰⁰ | Thermal Degradation of a Phenolic Resin, Vegetable Fibers, and Derived Composites. <i>Composites Science and Technology</i> , 2021 , 179-213 | | |
| 399 | Adjusting the interfacial adhesion via surface modification to prepare high-performance fibers. <i>Nano Materials Science</i> , 2021 , | 10.2 | 2 |
| 398 | On the Heuristic Procedure to Determine Processing Parameters in Additive Manufacturing Based on Materials Extrusion. <i>Polymers</i> , 2020 , 12, | 4.5 | 4 |
| 397 | Smart bilayer polymer reactor with cascade/non-cascade switching catalyst characteristics. <i>Materials Today Chemistry</i> , 2020 , 17, 100279 | 6.2 | 6 |

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| 396 | Towards next generation smart tandem catalysts with sandwiched mussel-inspired layer switch. <i>Materials Today Chemistry</i> , 2020 , 17, 100286 | 6.2 | 4 |
| 395 | New Insights into Molecular Links Between Microbiota and Gastrointestinal Cancers: A Literature Review. <i>International Journal of Molecular Sciences</i> , 2020 , 21, | 6.3 | 15 |
| 394 | 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 |
| 393 | Needle-free electrospinning of nanofibrillated cellulose and graphene nanoplatelets based sustainable poly (butylene succinate) nanofibers. <i>Materials Today Chemistry</i> , 2020 , 17, 100301 | 6.2 | 22 |
| 392 | Resilient and agile engineering solutions to address societal challenges such as coronavirus pandemic. <i>Materials Today Chemistry</i> , 2020 , 17, 100300 | 6.2 | 34 |
| 391 | Nanoparticles as an emerging tool to alter the gene expression: Preparation and conjugation methods. <i>Materials Today Chemistry</i> , 2020 , 17, 100295 | 6.2 | 8 |
| 390 | Z-scheme photocatalytic dye degradation on AgBr/Zn(Co)Fe ₂ O ₄ photocatalysts supported on nitrogen-doped graphene. <i>Materials Today Sustainability</i> , 2020 , 9, 100043 | 5 | 7 |
| 389 | 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 |
| 388 | Kinetic Study of the Biodegradation of Acephate by Indigenous Soil Bacterial Isolates in the Presence of Humic Acid and Metal Ions. <i>Biomolecules</i> , 2020 , 10, | 5.9 | 17 |
| 387 | Manufacturing and Evaluation of Mechanical, Morphological, and Thermal Properties of Reduced Graphene Oxide-Reinforced Expanded Polystyrene (EPS) Nanocomposites. <i>Advances in Polymer Technology</i> , 2020 , 2020, 1-9 | 1.9 | 10 |
| 386 | Development of Biodegradable Agar-Agar/Gelatin-Based Superabsorbent Hydrogel as an Efficient Moisture-Retaining Agent. <i>Biomolecules</i> , 2020 , 10, | 5.9 | 15 |
| 385 | 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 |
| 384 | Bioproduction of succinic acid from xylose by engineered without pH control. <i>Biotechnology for Biofuels</i> , 2020 , 13, 113 | 7.8 | 20 |
| 383 | 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 |
| 382 | Polysulfone functionalized membranes: Properties and challenges. <i>Materials Today Chemistry</i> , 2020 , 17, 100302 | 6.2 | 30 |
| 381 | Fused deposition modeling-based additive manufacturing (3D printing): techniques for polymer material systems. <i>Materials Today Chemistry</i> , 2020 , 16, 100248 | 6.2 | 99 |
| 380 | Carbon-Based Polymer Nanocomposite for High-Performance Energy Storage Applications. <i>Polymers</i> , 2020 , 12, | 4.5 | 69 |
| 379 | Synthesis of Eu ³⁺ -doped ZnO/Bi ₂ O ₃ heterojunction photocatalyst on graphene oxide sheets for visible light-assisted degradation of 2,4-dimethyl phenol and bacteria killing. <i>Solid State Sciences</i> , 2020 , 102, 106164 | 3.4 | 24 |

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| 378 | A review on exergy analysis of solar parabolic collectors. <i>Solar Energy</i> , 2020 , 197, 411-432 | 6.8 | 36 |
| 377 | Multifunctional Polymeric Nanoplatfoms for Brain Diseases Diagnosis, Therapy and Theranostics. <i>Biomedicines</i> , 2020 , 8, | 4.8 | 48 |
| 376 | 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 |
| 375 | Exploring recent advances in silver halides and graphitic carbon nitride-based photocatalyst for energy and environmental applications. <i>Arabian Journal of Chemistry</i> , 2020 , 13, 8271-8300 | 5.9 | 17 |
| 374 | Enhanced xylitol production using non-detoxified xylose rich pre-hydrolysate from sugarcane bagasse by newly isolated <i>Pichia fermentans</i> . <i>Biotechnology for Biofuels</i> , 2020 , 13, 209 | 7.8 | 14 |
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