

Giridhar Madras

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.

565
papers

20,293
citations

66
h-index

108
g-index

580
ext. papers

22,116
ext. citations

5.2
avg, IF

7.47
L-index

#	Paper	IF	Citations
565	Analysis on enhancing the sensing behavior of ionic polymer metal composite based sensors. <i>Journal of Intelligent Material Systems and Structures</i> , 2021 , 32, 420-429	2.3	4
564	Transition Metal (Ni, Cu and Fe) Substituted Co ₃ O ₄ /ZrO ₂ Catalysts for Lean Methane Combustion. <i>Topics in Catalysis</i> , 2021 , 64, 243-255	2.3	0
563	Ultrathin structures derived from interfacially modified polymeric nanocomposites to curb electromagnetic pollution. <i>Nanoscale Advances</i> , 2021 , 3, 2632-2648	5.1	4
562	Sustainable photocatalytic water remediation via dual active strongly coupled AgBiO ₃ on PVDF/PBSA membranes. <i>Chemical Engineering Journal</i> , 2020 , 394, 124777	14.7	26
561	Non-catalytic transesterification of dry microalgae to fatty acid ethyl esters using supercritical ethanol and ethyl acetate. <i>Fuel</i> , 2020 , 275, 117998	7.1	11
560	Polymer Nanocomposites Containing Semiconductors as Advanced Materials for EMI Shielding. <i>ACS Omega</i> , 2020 , 5, 4705-4718	3.9	31
559	Syngas production via CO ₂ reforming of methane over noble metal (Ru, Pt, and Pd) doped LaAlO ₃ perovskite catalyst. <i>Molecular Catalysis</i> , 2020 , 484, 110805	3.3	25
558	Catalytic behaviour of Mn ₂ .94M _{0.06} O ₄ -I (M=Pt, Ru and Pd) catalysts for low temperature water gas shift (WGS) and CO oxidation. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 10461-10474	6.7	9
557	Trigger-free self-healable electromagnetic shielding material assisted by co-doped graphene nanostructures. <i>Chemical Engineering Journal</i> , 2020 , 382, 122816	14.7	23
556	Does the nature of chemically grafted polymer onto PVDF decide the extent of electroactive Epolymer? <i>Polymer</i> , 2019 , 181, 121764	3.9	11
555	Behavioral analysis of simultaneous photo-electro-catalytic degradation of antibiotic resistant E. coli and antibiotic via ZnO/CuI: a kinetic and mechanistic study. <i>Nanoscale Advances</i> , 2019 , 1, 3992-4008	5.1	13
554	Role of CO ₂ methanation into the kinetics of preferential CO oxidation on Cu/Co ₃ O ₄ . <i>Molecular Catalysis</i> , 2019 , 466, 167-180	3.3	15
553	ZnO catalyzed transesterification of Madhuca indica oil in supercritical methanol. <i>Fuel</i> , 2019 , 242, 323-333	3.1	17
552	Conversion of Shizochitrium limacinum microalgae to biodiesel by non-catalytic transesterification using various supercritical fluids. <i>Bioresource Technology</i> , 2019 , 288, 121538	11	21
551	Enhanced photocatalysis and bacterial inhibition in Nb ₂ O ₅ via versatile doping with metals (Sr, Y, Zr, and Ag): a critical assessment. <i>Nanoscale Advances</i> , 2019 , 1, 2748-2760	5.1	14
550	Multi-layered stack consisting of PVDF nanocomposites with flow-induced oriented MWCNT structure can suppress electromagnetic radiation. <i>Composites Part B: Engineering</i> , 2019 , 166, 749-757	10	22
549	Interlocked Dithi-Magnetospheres Decorated MoS ₂ Nanosheets as Molecular Sieves and Traps for Heavy Metal Ions. <i>Advanced Sustainable Systems</i> , 2019 , 3, 1800153	5.9	21

548	Experimental measurements and correlation of the solubility of N,N-dialkylamides in supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2019 , 143, 162-170	4.2	12
547	Biodegradable polyol-based polymers for biomedical applications. <i>International Materials Reviews</i> , 2019 , 64, 288-309	16.1	13
546	Journey of Electroactive Polymorph of Poly(vinylidene fluoride) from Crystal Growth to Design to Applications. <i>Crystal Growth and Design</i> , 2019 , 19, 5441-5456	3.5	25
545	Mussel-Inspired Self-Healing Polyurethane with Flower-like Magnetic MoS ₂ as Efficient Microwave Absorbers. <i>ACS Applied Polymer Materials</i> , 2019 , 1, 2417-2429	4.3	27
544	Degradable poly(ester amide)s from olive oil for biomedical applications. <i>Emergent Materials</i> , 2019 , 2, 153-168	3.5	4
543	The journey of self-healing and shape memory polyurethanes from bench to translational research. <i>Polymer Chemistry</i> , 2019 , 10, 4370-4388	4.9	37
542	The Key Role of Modifications in Biointerfaces toward Rendering Antibacterial and Antifouling Properties in Polymeric Membranes for Water Remediation: A Critical Assessment. <i>Advanced Sustainable Systems</i> , 2019 , 3, 1900017	5.9	29
541	Studies to improve the actuation capability of low-frequency IPMC actuators for underwater robotic applications. <i>ISSS Journal of Micro and Smart Systems</i> , 2019 , 8, 41-47	0.9	6
540	Nanodelivery in Scrolls-Based Nanocarriers: Efficient Constructs for Sustainable Scavenging of Heavy Metal Ions and Inactivate Bacteria. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 18775-18784	8.2	12
539	Light weight, ultrathin, and thermally-clickable Self-healing MWNT patch as electromagnetic interference suppressor. <i>Chemical Engineering Journal</i> , 2019 , 366, 72-82	14.7	27
538	Microbial Biofilm Membranes for Water Remediation and Photobiocatalysis. <i>ACS Symposium Series</i> , 2019 , 321-351	0.4	8
537	Kinetic study of Z-scheme C ₃ N ₄ /CuWO ₄ photocatalyst towards solar light inactivation of mixed populated bacteria. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019 , 372, 108-121	4.7	35
536	Mechanistic Insight into the Nature of Dopants in Graphene Derivatives Influencing Electromagnetic Interference Shielding Properties in Hybrid Polymer Nanocomposites. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 2579-2590	3.8	34
535	Solubilities of dialkylhydrogen phosphonates in supercritical carbon dioxide and their correlation using semi-empirical equations. <i>Separation Science and Technology</i> , 2019 , 54, 1650-1660	2.5	8
534	Water Remediation Aided by a Graphene-Oxide-Anchored Metal Organic Framework through Pore- and Charge-Based Sieving of Ions. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 1580-1590	8.3	21
533	Novel insights into the properties of AgBiO ₃ photocatalyst and its application in immobilized state for 4-nitrophenol degradation and bacteria inactivation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019 , 373, 105-115	4.7	37
532	Gradient platform for combinatorial screening of thermoset polymers for biomedical applications. <i>Materials Science and Engineering C</i> , 2019 , 94, 766-777	8.3	2
531	Investigation of nano Ag-decorated SiC particles for photoelectrocatalytic dye degradation and bacterial inactivation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018 , 357, 118-131	4.7	20

530	Solubility of trioctylmethylammonium chloride in supercritical carbon dioxide and the influence of co-solvents on the solubility behavior. <i>Journal of Supercritical Fluids</i> , 2018 , 138, 102-114	4.2	15
529	Process mediated polymorphism, crystallographic texture and structure-property correlation in crystalline/amorphous blends. <i>Polymer</i> , 2018 , 138, 307-319	3.9	10
528	Repercussion of Solid state vs. Liquid state synthesized p-n heterojunction RGO-copper phosphate on proton reduction potential in water. <i>Scientific Reports</i> , 2018 , 8, 2881	4.9	11
527	Ultrafast Self-Healable Interfaces in Polyurethane Nanocomposites Designed Using Diels-Alder "Click" as an Efficient Microwave Absorber. <i>ACS Omega</i> , 2018 , 3, 1137-1146	3.9	36
526	Suppressing Electromagnetic Radiation by Trapping Ferrite Nanoparticles and Carbon Nanotubes in Hierarchical Nanoporous Structures Designed by Crystallization-Induced Phase Separation. <i>ChemistrySelect</i> , 2018 , 3, 1189-1201	1.8	16
525	Influence of copper oxide grown on various conducting substrates towards improved performance for photoelectrocatalytic bacterial inactivation. <i>Molecular Catalysis</i> , 2018 , 451, 161-169	3.3	12
524	Heterojunction ZnWO ₄ /ZnFe ₂ O ₄ composites with concerted effects and integrated properties for enhanced photocatalytic hydrogen evolution. <i>Catalysis Science and Technology</i> , 2018 , 8, 1083-1093	5.5	47
523	Nano tin ferrous oxide decorated graphene oxide sheets for efficient arsenic (III) removal. <i>Nano Structures Nano Objects</i> , 2018 , 13, 82-92	5.6	21
522	Efficient interfacial charge transfer through plasmon sensitized Ag@BiO hierarchical photoanodes for photoelectrocatalytic degradation of chlorinated phenols. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 3710-3723	3.6	28
521	Understanding the morphological effects of WO ₃ photocatalysts for the degradation of organic pollutants. <i>Advanced Powder Technology</i> , 2018 , 29, 1591-1600	4.6	62
520	Potential of hydrogen peroxide mediated water decontamination using thioglycolic acid. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 2200-2205	6.8	3
519	Experimental determination and development of solution theory based model for the mixture solubilities of 10-undecenoic acid with methyl 10-undecenoate and methyl ricinoleate in supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2018 , 137, 74-80	4.2	1
518	Polymeric membranes derived from immiscible blends with hierarchical porous structures, tailored bio-interfaces and enhanced flux: Potential and key challenges. <i>Nano Structures Nano Objects</i> , 2018 , 14, 149-165	5.6	25
517	Ag and CuO impregnated on Fe doped ZnO for bacterial inactivation under visible light. <i>Catalysis Today</i> , 2018 , 300, 71-80	5.3	24
516	Lightweight Microwave Absorber from Industrial Waste Fly Ash Cenosphere. <i>Lecture Notes in Electrical Engineering</i> , 2018 , 459-466	0.2	0
515	Aluminium and rhodium co-doped ceria for water gas shift reaction and CO oxidation. <i>Molecular Catalysis</i> , 2018 , 451, 4-12	3.3	9
514	Industrial waste fly ash cenosphere composites based broad band microwave absorber. <i>Composites Part B: Engineering</i> , 2018 , 134, 151-163	10	47
513	Photoconductive network structured copper oxide for simultaneous photoelectrocatalytic degradation of antibiotic (tetracycline) and bacteria (E. coli). <i>Chemical Engineering Journal</i> , 2018 , 332, 757-774	14.7	41

512	Cocatalyst free Z-schematic enhanced H ₂ evolution over LaVO ₄ /BiVO ₄ composite photocatalyst using Ag as an electron mediator. <i>Applied Catalysis B: Environmental</i> , 2018 , 220, 512-523	21.8	83
511	Morphology controllable microwave absorption property of polyvinylbutyral (PVB)-MnO ₂ nanocomposites. <i>Composites Part B: Engineering</i> , 2018 , 132, 188-196	10	53
510	A designer membrane tool-box with a mixed metal organic framework and RAFT-synthesized antibacterial polymer perform in tandem towards desalination, antifouling and heavy metal exclusion. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 16664-16679	13	31
509	Catalytic synthesis of fatty acid methyl esters from Madhuca indica oil in supercritical methanol. <i>Energy Conversion and Management</i> , 2018 , 173, 412-425	10.6	7
508	Shape memory polyurethane nanocomposites with porous architectures for enhanced microwave shielding. <i>Chemical Engineering Journal</i> , 2018 , 352, 590-600	14.7	48
507	Experimental determination and association model for the solubilities of methyl 10-undecenoate with methyl ricinoleate in supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2018 , 139, 80-87	4.2	1
506	Photochemical detoxification of Cr(VI) using iron and saccharic acid: insights from cytotoxic and genotoxic assays. <i>Environmental Science: Water Research and Technology</i> , 2018 , 4, 1152-1162	4.2	3
505	PVDF/PBSA membranes with strongly coupled phosphonium derivatives and graphene oxide on the surface towards antibacterial and antifouling activities. <i>Journal of Membrane Science</i> , 2018 , 548, 203-214	9.6	37
504	Cooperative effect between BaTiO ₃ and CaFe ₂ O ₄ in a cocatalyst-free heterojunction composite for improved photochemical H ₂ generation. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 22929-22941	6.7	15
503	Polyvinylbutyral-Polyaniline Nanocomposite for High Microwave Absorption Efficiency. <i>ACS Omega</i> , 2018 , 3, 16542-16548	3.9	14
502	PVDF-MWNT interactions control process induced lamellar morphology and orientation in the nanocomposites. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 24821-24831	3.6	6
501	Piezoelectric Response in Electrospun Poly(vinylidene fluoride) Fibers Containing Fluoro-Doped Graphene Derivatives. <i>ACS Omega</i> , 2018 , 3, 5317-5326	3.9	25
500	Mechanistic Insights and Kinetics of CO Oxidation over Pristine and Noble Metal Modified Fe ₂ O ₃ Using Diffuse Reflectance Infrared Fourier Transform Spectroscopy. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 2008-2024	3.9	15
499	Antibacterial Membranes for Water Remediation with Controlled Leaching of Biocidal Silver Aided by Prior Grafting of Poly(ethylene imine) on to Ozone-Treated Polyethylene. <i>ChemistrySelect</i> , 2017 , 2, 624-631	1.8	5
498	Fatty acid methyl esters synthesis from non-edible vegetable oils using supercritical methanol and methyl tert-butyl ether. <i>Energy Conversion and Management</i> , 2017 , 138, 77-83	10.6	22
497	Solubility of tri-iso-amyl phosphate in supercritical carbon dioxide and its application to selective extraction of uranium. <i>Separation Science and Technology</i> , 2017 , 52, 2224-2237	2.5	9
496	Esterification of Sebacic Acid in Near-Critical and Supercritical Methanol. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 2641-2649	3.9	8
495	Electromagnetic interference shielding efficiency of MnO ₂ nanorod doped polyaniline film. <i>Materials Research Express</i> , 2017 , 4, 025013	1.7	32

494	Critical Insights into the Effect of Shear, Shear History, and the Concentration of a Diluent on the Polymorphism in Poly(vinylidene fluoride). <i>Crystal Growth and Design</i> , 2017 , 17, 1957-1965	3.5	11
493	Trapping a Metastable Ferroelectric Phase by Size Reduction in Semiconducting Ferroelectric BiFeO ₃ BbTiO ₃ and Its Implications for Photocatalytic Response. <i>Physical Review Applied</i> , 2017 , 7,	4.3	12
492	Crystallization Induced Phase Separation: Unique Tool to Design Microfiltration Membranes with High Flux and Sustainable Antibacterial Surface. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 2025-2035	3.9	8
491	Spectroscopic and kinetic insights of Pt-dispersion over microwave-synthesized GO-supported Pt-TiO ₂ for CO oxidation. <i>Molecular Catalysis</i> , 2017 , 432, 88-98	3.3	11
490	Zinc and platinum co-doped ceria for WGS and CO oxidation. <i>Applied Catalysis B: Environmental</i> , 2017 , 211, 137-147	21.8	17
489	Electromagnetic interference shielding effectiveness of polyaniline-nickel oxide coated cenosphere composite film. <i>Composites Communications</i> , 2017 , 4, 37-42	6.7	47
488	Role of Ni in hetero-architected NiO/Ni composites for enhanced catalytic performance. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 13895-13908	3.6	24
487	Controlled release from aspirin based linear biodegradable poly(anhydride esters) for anti-inflammatory activity. <i>International Journal of Pharmaceutics</i> , 2017 , 528, 732-740	6.5	2
486	Biodiesel synthesis from Calophyllum inophyllum oil with different supercritical fluids. <i>Bioresource Technology</i> , 2017 , 241, 767-774	11	22
485	Kinetics and mechanism of dye adsorption on WO ₃ nanoparticles. <i>Applied Surface Science</i> , 2017 , 420, 472-482	6.7	58
484	Microkinetic model for WGS over ionic platinum substituted ceria under r-WGS conditions. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 23891-23898	6.7	2
483	Biodegradable galactitol based crosslinked polyesters for controlled release and bone tissue engineering. <i>Materials Science and Engineering C</i> , 2017 , 77, 534-547	8.3	14
482	Wedge-like WO ₃ architectures for efficient electrochromism and photoelectrocatalytic activity towards water pollutants. <i>Molecular Catalysis</i> , 2017 , 432, 76-87	3.3	16
481	Controlled Release of Usnic Acid from Biodegradable Polyesters to Inhibit Biofilm Formation. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 291-303	5.5	6
480	High-temperature transformation pathways for metastable ferromagnetic binary Heusler (Al _{0.5} at.%Mn) alloy. <i>Journal of Materials Science</i> , 2017 , 52, 4109-4119	4.3	8
479	Solubility of dialkylalkyl phosphonates in supercritical carbon dioxide: Experimental and modeling approach. <i>Fluid Phase Equilibria</i> , 2017 , 435, 88-97	2.5	16
478	Remarkable enhancement of Fenton degradation at a wide pH range promoted by thioglycolic acid. <i>Chemical Communications</i> , 2017 , 53, 1136-1139	5.8	38
477	Solar-Light-Driven Improved Photocatalytic Performance of Hierarchical ZnIn ₂ S ₄ Architectures. <i>ACS Omega</i> , 2017 , 2, 6926-6938	3.9	23

476	Superior adsorption capacity of strontium titanate and titania composites for anionic dyes removal. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 4663-4675	6.8	6
475	Development of Graphene Oxide-/Galactitol Polyester-Based Biodegradable Composites for Biomedical Applications. <i>ACS Omega</i> , 2017 , 2, 5545-5556	3.9	20
474	Magnetic Alloy-MWNT Heterostructure as Efficient Electromagnetic Wave Suppressors in Soft Nanocomposites. <i>ChemistrySelect</i> , 2017 , 2, 7831-7844	1.8	25
473	Antibacterial and Antibiofouling Polymeric Membranes through Immobilization of Pyridine Derivative Leading to ROS Generation and Loss in Bacterial Membrane Integrity. <i>ChemistrySelect</i> , 2017 , 2, 7965-7974	1.8	16
472	Evaluation of new density based model to correlate the solubilities of ricinoleic acid, methyl ricinoleate and methyl 10-undecenoate in supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2017 , 130, 357-363	4.2	7
471	Hierarchical Design of CuS Architectures for Visible Light Photocatalysis of 4-Chlorophenol. <i>ACS Omega</i> , 2017 , 2, 4009-4021	3.9	70
470	Selective cleavage of the polyphosphoester in crosslinked copper based nanogels: enhanced antibacterial performance through controlled release of copper. <i>Nanoscale</i> , 2017 , 9, 12664-12676	7.7	26
469	Poly(ester amide)s from Poly(ethylene terephthalate) Waste for Enhancing Bone Regeneration and Controlled Release. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 28281-28297	9.5	11
468	Microkinetic Modeling of CO Oxidation over FePt-Decorated Graphene Oxide. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 8465-8473	3.9	4
467	Kinetics of esterification of 10-undecenoic and ricinoleic acids with near-critical and supercritical methanol. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 1425-1436	5.8	5
466	Synergistic effect of co-existence of hematite (α -Fe ₂ O ₃) and magnetite (Fe ₃ O ₄) nanoparticles on graphene sheet for dye adsorption. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 26-37	6.8	43
465	Role of Hydrogen and Oxygen Activation over Pt and Pd-Doped Composites for Catalytic Hydrogen Combustion. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 19380-19388	9.5	14
464	Kinetics of non-catalytic synthesis of bis(2-ethylhexyl)sebacate at high pressures. <i>Reaction Chemistry and Engineering</i> , 2017 , 2, 27-35	4.9	9
463	Effect of morphology of zinc oxide in ZnO-CdS-Ag ternary nanocomposite towards photocatalytic inactivation of E. coli under UV and visible light. <i>Chemical Engineering Journal</i> , 2017 , 307, 966-980	14.7	61
462	Tailored Degradation and Dye Release from Poly(ester amides). <i>Polymer-Plastics Technology and Engineering</i> , 2017 , 56, 635-646		5
461	Microwave absorption property of PVB-polyaniline nanocomposite 2017 ,		2
460	Exploring the pathways for enhancing the hard magnetic properties of binary Al-55at.%Mn Heusler alloy through mechanical alloying. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 439, 181-187	2.8	3
459	Phase specific dispersion of functional nanoparticles in soft nanocomposites resulting in enhanced electromagnetic screening ability dominated by absorption. <i>Physical Chemistry Chemical Physics</i> , 2016 , 19, 467-479	3.6	21

458	Kinetics of CO oxidation over Cu doped Mn ₃ O ₄ . <i>Journal of Molecular Catalysis A</i> , 2016 , 424, 106-114		26
457	Influence of MnO ₂ decorated Fe nano cauliflowers on microwave absorption and impedance matching of polyvinylbutyral (PVB) matrix. <i>Materials Research Express</i> , 2016 , 3, 095003	1.7	16
456	PVDF membranes containing hybrid nanoparticles for adsorbing cationic dyes: physical insights and mechanism. <i>Materials Research Express</i> , 2016 , 3, 075303	1.7	1
455	Visible light assisted improved photocatalytic activity of combustion synthesized spongy-ZnO towards dye degradation and bacterial inactivation. <i>RSC Advances</i> , 2016 , 6, 80086-80098	3.7	25
454	Enhanced preferential CO oxidation on Zn ₂ SnO ₄ supported Au nanoparticles: support and H ₂ effects. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 14430-14436	13	14
453	Poly(vinyl butyral) -polyaniline-magnetically functionalized fly ash cenosphere composite film for electromagnetic interference shielding. <i>Composites Part B: Engineering</i> , 2016 , 106, 224-233	10	53
452	Localized delivery and enhanced osteogenic differentiation with biodegradable galactitol polyester elastomers. <i>RSC Advances</i> , 2016 , 6, 61492-61504	3.7	8
451	Maltitol-based biodegradable polyesters with tailored degradation and controlled release for bone regeneration. <i>RSC Advances</i> , 2016 , 6, 40539-40551	3.7	9
450	Million-Fold Decrease in Polymer Moisture Permeability by a Graphene Monolayer. <i>ACS Nano</i> , 2016 , 10, 6501-9	16.7	28
449	Effect of crosslinker on the swelling and adsorption properties of cationic superabsorbent. <i>Bulletin of Materials Science</i> , 2016 , 39, 613-626	1.7	9
448	Critical insights into the effect of shear on reduction of graphene oxide in PVDF: assessing by rheo-dielectric measurements. <i>Materials Research Express</i> , 2016 , 3, 065301	1.7	2
447	TiO ₂ /EVOH based reactive interlayer in Surlyn for organic device encapsulation. <i>Materials Research Express</i> , 2016 , 3, 025302	1.7	9
446	Controlled release kinetics of p-aminosalicylic acid from biodegradable crosslinked polyesters for enhanced anti-mycobacterial activity. <i>Acta Biomaterialia</i> , 2016 , 30, 168-176	10.8	12
445	Nanomaterial-based ionic polymer metal composite insect scale flapping wing actuators. <i>Mechanics of Advanced Materials and Structures</i> , 2016 , 23, 1300-1311	1.8	2
444	Outstanding dielectric constant and piezoelectric coefficient in electrospun nanofiber mats of PVDF containing silver decorated multiwall carbon nanotubes: assessing through piezoresponse force microscopy. <i>RSC Advances</i> , 2016 , 6, 6251-6258	3.7	87
443	Macroporous three-dimensional graphene oxide foams for dye adsorption and antibacterial applications. <i>RSC Advances</i> , 2016 , 6, 1231-1242	3.7	83
442	Sonochemical synthesis of Pt, Ru doped TiO ₂ for methane reforming. <i>Applied Catalysis A: General</i> , 2016 , 518, 102-114	5.1	42
441	Chitosan Immobilized Porous Polyolefin As Sustainable and Efficient Antibacterial Membranes. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 862-870	8.3	33

440	Novel synergistic photocatalytic degradation of antibiotics and bacteria using V _N doped TiO ₂ under visible light: the state of nitrogen in V-doped TiO ₂ . <i>New Journal of Chemistry</i> , 2016 , 40, 3464-3475 ^{3.6}	3.6	44
439	Experimental solubilities of two lipid derivatives in supercritical carbon dioxide and new correlations based on activity coefficient models. <i>RSC Advances</i> , 2016 , 6, 17772-17781	3.7	8
438	Microkinetic Modeling of CO Oxidation on Ionic Palladium-Substituted Ceria. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 2309-2318	3.9	10
437	Influence of Mesoporous Silica and Butyral Content on the Mechanical, Water Absorption, and Permeability Properties of in situ Synthesized Silica/PVB Nanocomposite Films. <i>Polymer-Plastics Technology and Engineering</i> , 2016 , 55, 1220-1230		5
436	Tailoring the degradation rate and release kinetics from poly(galactitol sebacate) by blending with chitosan, alginate or ethyl cellulose. <i>International Journal of Biological Macromolecules</i> , 2016 , 93, 1591-1602	7.9	11
435	Physical insights into salicylic acid release from poly(anhydrides). <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 2112-9	3.6	3
434	Unimpeded permeation of water through biocidal graphene oxide sheets anchored on to 3D porous polyolefinic membranes. <i>Nanoscale</i> , 2016 , 8, 8048-57	7.7	25
433	Solubilities of 10-undecenoic acid and geraniol in supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2016 , 107, 384-391	4.2	28
432	Electrically driven intracellular and extracellular nanomanipulators evoke neurogenic/cardiomyogenic differentiation in human mesenchymal stem cells. <i>Biomaterials</i> , 2016 , 77, 26-43	15.6	47
431	Novel poly (vinyl butyral) (PVB)/polyaniline-cenosphere composite film for EMI shielding 2016 ,		2
430	New Physical Insights into Shear History Dependent Polymorphism in Poly(vinylidene fluoride). <i>Crystal Growth and Design</i> , 2016 , 16, 2937-2944	3.5	23
429	Alkylation of Fatty Acids in Supercritical Alcohols. <i>Energy & Fuels</i> , 2016 , 30, 4104-4111	4.1	9
428	Facile one-pot scalable strategy to engineer biocidal silver nanocluster assembly on thiolated PVDF membranes for water purification. <i>RSC Advances</i> , 2016 , 6, 38972-38983	3.7	25
427	Visible light driven efficient N and Cu co-doped ZnO for photoinactivation of Escherichia coli. <i>RSC Advances</i> , 2016 , 6, 85675-85687	3.7	33
426	Poly(ester amide)s from Soybean Oil for Modulated Release and Bone Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 25170-84	9.5	18
425	Improving antifouling ability by site-specific silver decoration on polyethylene ionomer membranes for water remediation: assessed using 3D micro computed tomography, water flux and antibacterial studies. <i>RSC Advances</i> , 2016 , 6, 88057-88065	3.7	9
424	Predicting Pathways for Synthesis of Ferromagnetic L ₁ Phase in Binary Heusler Alloy Al-55 pct Mn Through Understanding of the Kinetics of L ₁ Transformation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 6555-6568	2.3	5
423	The effect of sulfate pre-treatment to improve the deposition of Au-nanoparticles in a gold-modified sulfated g-CN plasmonic photocatalyst towards visible light induced water reduction reaction. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 28502-28514	3.6	103

4 ²²	Introducing saccharic acid as an efficient iron chelate to enhance photo-Fenton degradation of organic contaminants. <i>Water Research</i> , 2016 , 104, 168-177	12.5	46
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4 ¹⁶	Thermally flexible epoxy/cellulose blends mediated by an ionic liquid. <i>RSC Advances</i> , 2015 , 5, 52832-52837	3.7	6
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