

# Giridhar Madras

## List of Publications by Citations

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565  
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580  
ext. papers

22,116  
ext. citations

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7.47  
L-index

#	Paper	IF	Citations
565	Catalysis for NO <sub>x</sub> abatement. <i>Applied Energy</i> , <b>2009</b> , 86, 2283-2297	10.7	525
564	Structure and Photocatalytic Activity of Ti <sub>1-x</sub> M <sub>x</sub> O <sub>2</sub> (M = W, V, Ce, Zr, Fe, and Cu) Synthesized by Solution Combustion Method. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 20204-20212	3.4	484
563	Synthesis and structure of nanocrystalline TiO <sub>2</sub> with lower band gap showing high photocatalytic activity. <i>Langmuir</i> , <b>2004</b> , 20, 2900-7	4	473
562	Solar photocatalytic degradation of dyes: high activity of combustion synthesized nano TiO <sub>2</sub> . <i>Applied Catalysis B: Environmental</i> , <b>2004</b> , 48, 83-93	21.8	329
561	Photocatalytic degradation of various dyes by combustion synthesized nano anatase TiO <sub>2</sub> . <i>Applied Catalysis B: Environmental</i> , <b>2003</b> , 45, 23-38	21.8	317
560	Synthesis of biodiesel in supercritical fluids. <i>Fuel</i> , <b>2004</b> , 83, 2029-2033	7.1	299
559	Noble metal ionic catalysts. <i>Accounts of Chemical Research</i> , <b>2009</b> , 42, 704-12	24.3	279
558	Novel photocatalysts for the decomposition of organic dyes based on metal-organic framework compounds. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 13759-68	3.4	266
557	Conducting polyaniline/nano-TiO <sub>2</sub> composites for smart corrosion resistant coatings. <i>Electrochimica Acta</i> , <b>2009</b> , 54, 1249-1254	6.7	259
556	Photocatalytic degradation of organic compounds over combustion-synthesized nano-TiO <sub>2</sub> . <i>Environmental Science &amp; Technology</i> , <b>2004</b> , 38, 1600-4	10.3	253
555	Ultrafast Microwave-Assisted Route to Surfactant-Free Ultrafine Pt Nanoparticles on Graphene: Synergistic Co-reduction Mechanism and High Catalytic Activity. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 2772-2780	9.6	243
554	Adsorption of sulfonated dyes by polyaniline emeraldine salt and its kinetics. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 10153-7	3.4	219
553	Synthesis of biodiesel from edible and non-edible oils in supercritical alcohols and enzymatic synthesis in supercritical carbon dioxide. <i>Fuel</i> , <b>2007</b> , 86, 2650-2659	7.1	216
552	Low-Temperature Selective Catalytic Reduction of NO with NH <sub>3</sub> over Ti <sub>0.9</sub> M <sub>0.1</sub> O <sub>2</sub> (M = Cr, Mn, Fe, Co, Cu). <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 6002-6012	3.8	208
551	Photocatalytic Degradation of Rhodamine Dyes with Nano-TiO <sub>2</sub> . <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 7-14	3.9	196
550	Synthesis of Biodiesel from Castor Oil and Linseed Oil in Supercritical Fluids. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 1-6	3.9	160
549	Adsorption and desorption kinetics of anionic dyes on doped polyaniline. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 2293-9	3.4	159

548	High Oxygen Storage Capacity and High Rates of CO Oxidation and NO Reduction Catalytic Properties of Ce <sub>1-x</sub> Sn <sub>x</sub> O <sub>2</sub> and Ce <sub>0.78</sub> Sn <sub>0.2</sub> Pd <sub>0.02</sub> O <sub>2</sub> - $\gamma$ -Al <sub>2</sub> O <sub>3</sub> . <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 4059-4068	3.8	139
547	Process induced electroactive $\beta$ -polymorph in PVDF: effect on dielectric and ferroelectric properties. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 14792-9	3.6	135
546	Nanoscale ZnO/CdS heterostructures with engineered interfaces for high photocatalytic activity under solar radiation. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 4209		134
545	Kinetics of sonophotocatalytic degradation of anionic dyes with Nano-TiO <sub>2</sub> . <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 473-9	10.3	127
544	Kinetics of simultaneous photocatalytic degradation of phenolic compounds and reduction of metal ions with nano-TiO <sub>2</sub> . <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 913-9	10.3	124
543	Photocatalytic degradation of Azure and Sudan dyes using nano TiO <sub>2</sub> . <i>Journal of Hazardous Materials</i> , <b>2007</b> , 149, 725-34	12.8	113
542	Intermittent electrical stimuli for guidance of human mesenchymal stem cell lineage commitment towards neural-like cells on electroconductive substrates. <i>Biomaterials</i> , <b>2014</b> , 35, 6219-35	15.6	105
541	Origin of enhanced photocatalytic activity and photoconduction in high aspect ratio ZnO nanorods. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 10795-802	3.6	104
540	Investigation of dye functional group on the photocatalytic degradation of dyes by nano-TiO <sub>2</sub> . <i>Journal of Hazardous Materials</i> , <b>2010</b> , 176, 765-73	12.8	104
539	Layer-by-layer assembled thin films and microcapsules of nanocrystalline cellulose for hydrophobic drug delivery. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 20093-101	9.5	103
538	Thermal degradation of binary physical mixtures and copolymers of poly( $\epsilon$ -caprolactone), poly(D, L-lactide), poly(glycolide). <i>Polymer Degradation and Stability</i> , <b>2004</b> , 84, 393-398	4.7	103
537	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> , <b>2016</b> , 18, 28502-28514	3.6	103
536	Kinetics of the photodegradation of substituted phenols by solution combustion synthesized TiO <sub>2</sub> . <i>Applied Catalysis B: Environmental</i> , <b>2004</b> , 51, 67-76	21.8	100
535	Thermal degradation and mechanical properties of PET blends. <i>Polymer Degradation and Stability</i> , <b>2005</b> , 90, 147-153	4.7	96
534	Enzymatic degradation of polymers: a brief review. <i>Materials Science and Technology</i> , <b>2014</b> , 30, 567-573	1.5	95
533	Polyolefin based antibacterial membranes derived from PE/PEO blends compatibilized with amine terminated graphene oxide and maleated PE. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 17635-17648	13	94
532	New empirical expressions to correlate solubilities of solids in supercritical carbon dioxide. <i>Thermochimica Acta</i> , <b>2010</b> , 500, 123-127	2.9	93
531	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> , <b>2016</b> , 6, 6251-6258	3.7	87

530	Molecular Weight Effect on the Dynamics of Polystyrene Degradation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1997</b> , 36, 2019-2024	3.9	87
529	Poly(vinylidene fluoride)-based flexible and lightweight materials for attenuating microwave radiations. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 21151-60	9.5	85
528	Photocatalytic Activity of Combustion Synthesized ZrO <sub>2</sub> and ZrO <sub>2</sub> /TiO <sub>2</sub> Mixed Oxides. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 12915-12924	3.9	85
527	Conjugated polymers for photocatalysis. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 7994-8	3.4	84
526	Cocatalyst free Z-schematic enhanced H <sub>2</sub> evolution over LaVO <sub>4</sub> /BiVO <sub>4</sub> composite photocatalyst using Ag as an electron mediator. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 220, 512-523	21.8	83
525	Macroporous three-dimensional graphene oxide foams for dye adsorption and antibacterial applications. <i>RSC Advances</i> , <b>2016</b> , 6, 1231-1242	3.7	83
524	Adsorption of anionic dyes on chitosan grafted poly(alkyl methacrylate)s. <i>Chemical Engineering Journal</i> , <b>2010</b> , 158, 393-401	14.7	82
523	Kinetics of thermal degradation of poly( $\epsilon$ -caprolactone). <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2003</b> , 70, 631-647	6	81
522	Highly efficient WO <sub>3</sub> /nO mixed oxides for photocatalysis. <i>RSC Advances</i> , <b>2015</b> , 5, 11895-11904	3.7	80
521	CO methanation toward the production of synthetic natural gas over highly active Ni/TiO <sub>2</sub> catalyst. <i>AIChE Journal</i> , <b>2014</b> , 60, 1027-1035	3.6	79
520	Dye sensitized visible light degradation of phenolic compounds. <i>Chemical Engineering Journal</i> , <b>2010</b> , 165, 784-797	14.7	79
519	Photocatalytic reduction of metals in presence of combustion synthesized nano-TiO <sub>2</sub> . <i>Catalysis Communications</i> , <b>2008</b> , 9, 630-634	3.2	78
518	Photocatalytic degradation of nitrobenzenes with combustion synthesized nano-TiO <sub>2</sub> . <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2006</b> , 178, 1-7	4.7	78
517	Supercritical fluid regeneration of activated carbon loaded with heavy molecular weight organics. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1993</b> , 32, 1163-1168	3.9	77
516	Photocatalytic activity of Ag-substituted and impregnated nano-TiO <sub>2</sub> . <i>Applied Catalysis A: General</i> , <b>2009</b> , 366, 130-140	5.1	76
515	Degradation kinetics of polymers in solution: Dynamics of molecular weight distributions. <i>AIChE Journal</i> , <b>1997</b> , 43, 802-810	3.6	75
514	A novel sheet 4f-3d mixed-metal pyridine dicarboxylate: synthesis, structure, photophysical properties and its transformation to a perovskite oxide. <i>Chemical Communications</i> , <b>2005</b> , 5787-9	5.8	75
513	Evolution to Similarity Solutions for Fragmentation and Aggregation. <i>Journal of Colloid and Interface Science</i> , <b>1998</b> , 201, 200-209	9.3	73

512	Crystal structures and photocatalysis of the triclinic polymorphs of BiNbO <sub>4</sub> and BiTaO <sub>4</sub> . <i>Journal of Solid State Chemistry</i> , <b>2006</b> , 179, 3919-3925	3.3	73
511	Temperature effects on the transition from nucleation and growth to Ostwald ripening. <i>Chemical Engineering Science</i> , <b>2004</b> , 59, 2753-2765	4.4	73
510	Engineering Nanostructures by Decorating Magnetic Nanoparticles onto Graphene Oxide Sheets to Shield Electromagnetic Radiations. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 16266-78	9.5	72
509	Photocatalytic inactivation of E. Coli by ZnO/Ag nanoparticles under solar radiation. <i>RSC Advances</i> , <b>2015</b> , 5, 51067-51077	3.7	71
508	Adsorption-desorption and photocatalytic properties of inorganic-organic hybrid cadmium thiosulfate compounds. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 11285-96	3.6	71
507	Effect of initial molecular weight and solvents on the ultrasonic degradation of poly(ethylene oxide). <i>Polymer Degradation and Stability</i> , <b>2005</b> , 90, 116-122	4.7	71
506	Degradation of Poly(methyl methacrylate) in Solution. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1996</b> , 35, 1795-1800	3.9	71
505	Hierarchical Design of CuS Architectures for Visible Light Photocatalysis of 4-Chlorophenol. <i>ACS Omega</i> , <b>2017</b> , 2, 4009-4021	3.9	70
504	New insights into selective heterogeneous nucleation of metal nanoparticles on oxides by microwave-assisted reduction: rapid synthesis of high-activity supported catalysts. <i>ACS Nano</i> , <b>2011</b> , 5, 8049-61	16.7	69
503	High rates of NO and N <sub>2</sub> O reduction by CO, CO and hydrocarbon oxidation by O <sub>2</sub> over nano crystalline Ce <sub>0.98</sub> Pd <sub>0.02</sub> O <sub>2</sub> —Catalytic and kinetic studies. <i>Applied Catalysis B: Environmental</i> , <b>2007</b> , 71, 23-31	21.8	69
502	Ostwald ripening with size-dependent rates: Similarity and power-law solutions. <i>Journal of Chemical Physics</i> , <b>2002</b> , 117, 8042-8049	3.9	68
501	Supercritical carbon dioxide extraction of organics from soil. <i>Environmental Science &amp; Technology</i> , <b>1993</b> , 27, 1225-1231	10.3	68
500	Cooperativity and Structural Relaxations in PVDF/PMMA Blends in the Presence of MWNTs: An Assessment through SAXS and Dielectric Spectroscopy. <i>Macromolecules</i> , <b>2014</b> , 47, 1392-1402	5.5	67
499	Photocatalytic Degradation of Dyes and Organics with Nanosized GdCoO <sub>3</sub> . <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 1665-1674	3.8	66
498	Thermal degradation of poly (ε-caprolactone). <i>Polymer Degradation and Stability</i> , <b>2003</b> , 80, 11-16	4.7	66
497	Continuous distribution kinetics for ultrasonic degradation of polymers. <i>Polymer Degradation and Stability</i> , <b>2000</b> , 69, 73-78	4.7	66
496	Discrete and continuous models for polymerization and depolymerization. <i>Chemical Engineering Science</i> , <b>2001</b> , 56, 2831-2836	4.4	65
495	Analytical solution for a population balance equation with aggregation and fragmentation. <i>Chemical Engineering Science</i> , <b>2003</b> , 58, 3049-3051	4.4	64

494	In vitro/In vivo assessment and mechanisms of toxicity of bioceramic materials and its wear particulates. <i>RSC Advances</i> , <b>2014</b> , 4, 12763	3.7	63
493	Multivalent Cu-Doped ZnO Nanoparticles with Full Solar Spectrum Absorbance and Enhanced Photoactivity. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2014</b> , 53, 5895-5904	3.9	63
492	Kinetics of TiO <sub>2</sub> -Catalyzed Ultrasonic Degradation of Rhodamine Dyes. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2006</b> , 45, 913-921	3.9	63
491	Understanding the morphological effects of WO <sub>3</sub> photocatalysts for the degradation of organic pollutants. <i>Advanced Powder Technology</i> , <b>2018</b> , 29, 1591-1600	4.6	62
490	Synthesis of biodiesel in supercritical alcohols and supercritical carbon dioxide. <i>Fuel</i> , <b>2010</b> , 89, 1641-1646	7.1	62
489	Enzymatic Synthesis of Ethyl Palmitate in Supercritical Carbon Dioxide. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2004</b> , 43, 1568-1573	3.9	62
488	Flexible EMI shielding materials derived by melt blending PVDF and ionic liquid modified MWNTs. <i>Materials Research Express</i> , <b>2014</b> , 1, 035003	1.7	61
487	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> , <b>2017</b> , 307, 966-980	14.7	61
486	Enzymatic and Thermal Degradation of Poly( $\epsilon$ -caprolactone), Poly(D,L-lactide), and Their Blends. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2004</b> , 43, 7702-7709	3.9	61
485	Catalytic performance of highly dispersed Ni/TiO <sub>2</sub> for dry and steam reforming of methane. <i>RSC Advances</i> , <b>2014</b> , 4, 4817	3.7	60
484	New insights into electronic and geometric effects in the enhanced photoelectrooxidation of ethanol Using ZnO nanorod/ultrathin Au nanowire hybrids. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 14445-55	16.4	60
483	Multilayer self-assembly of TiO <sub>2</sub> nanoparticles and polyaniline-grafted-chitosan copolymer (CPANI) for photocatalysis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2011</b> , 3, 84-92	9.5	60
482	Modeling of supercritical extraction of organics from solid matrices. <i>AIChE Journal</i> , <b>1994</b> , 40, 777-785	3.6	60
481	Synthesis, Characterization and Photocatalytic Activity of Lanthanide (Ce, Pr and Nd) Orthovanadates. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 1013-1017	3.9	59
480	Kinetics and mechanism of dye adsorption on WO <sub>3</sub> nanoparticles. <i>Applied Surface Science</i> , <b>2017</b> , 420, 472-482	6.7	58
479	Effect of solvent on the ultrasonic degradation of poly(vinyl acetate). <i>Polymer Degradation and Stability</i> , <b>2001</b> , 71, 273-278	4.7	58
478	Novel AgBr/Ag <sub>3</sub> PO <sub>4</sub> Decorated Ceria Nanoflake Composites for Enhanced Photocatalytic Activity toward Dyes and Bacteria under Visible Light. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 8031-8042	3.9	57
477	Influence of CeO <sub>2</sub> morphology on the catalytic activity of CeO <sub>2</sub> -Pt hybrids for CO oxidation. <i>Dalton Transactions</i> , <b>2013</b> , 42, 15343-54	4.3	57



476	Synthesis, characterization and thermal degradation of dual temperature- and pH-sensitive RAFT-made copolymers of N,N-(dimethylamino)ethyl methacrylate and methyl methacrylate. <i>Polymer International</i> , <b>2013</b> , 62, 463-473	3.3	57
475	Solubilities of solids in supercritical fluids using dimensionally consistent modified solvate complex models. <i>Fluid Phase Equilibria</i> , <b>2009</b> , 283, 97-101	2.5	57
474	Solubilities of palmitic and stearic fatty acids in supercritical carbon dioxide. <i>Journal of Chemical Thermodynamics</i> , <b>2010</b> , 42, 193-197	2.9	57
473	Effect of temperature on the ultrasonic degradation of polyacrylamide and poly(ethylene oxide). <i>Polymer Degradation and Stability</i> , <b>2004</b> , 84, 341-344	4.7	57
472	Temperature effects during Ostwald ripening. <i>Journal of Chemical Physics</i> , <b>2003</b> , 119, 1683-1693	3.9	57
471	Photocatalytic degradation with combustion synthesized WO <sub>3</sub> and WO <sub>3</sub> TiO <sub>2</sub> mixed oxides under UV and visible light. <i>Separation and Purification Technology</i> , <b>2013</b> , 105, 79-89	8.3	55
470	Time evolution to similarity solutions for polymer degradation. <i>AIChE Journal</i> , <b>1998</b> , 44, 647-655	3.6	55
469	Photocatalytic degradation of poly(ethylene oxide) and polyacrylamide. <i>Journal of Applied Polymer Science</i> , <b>2006</b> , 100, 3997-4003	2.9	54
468	Kinetics of photocatalytic degradation of phenols with multiple substituent groups. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2006</b> , 179, 256-262	4.7	54
467	Morphology controllable microwave absorption property of polyvinylbutyral (PVB)-MnO <sub>2</sub> nanocomposites. <i>Composites Part B: Engineering</i> , <b>2018</b> , 132, 188-196	10	53
466	Poly(vinyl butyral) -polyaniline-magnetically functionalized fly ash cenosphere composite film for electromagnetic interference shielding. <i>Composites Part B: Engineering</i> , <b>2016</b> , 106, 224-233	10	53
465	Higher Catalytic Activity of Nano-Ce <sub>1-x</sub> Y <sub>x</sub> Ti <sub>x</sub> Pd <sub>1-x</sub> O <sub>2</sub> -I Compared to Nano-Ce <sub>1-x</sub> Pd <sub>x</sub> O <sub>2</sub> -I for CO Oxidation and N <sub>2</sub> O and NO Reduction by CO: Role of Oxide Ion Vacancy. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 830-839	3.8	53
464	Creation of Redox Adsorption Sites by Pd <sup>2+</sup> Ion Substitution in nanoTiO <sub>2</sub> for High Photocatalytic Activity of CO Oxidation, NO Reduction, and NO Decomposition. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 8153-8160	3.8	53
463	Effect of Metal Oxides on Thermal Degradation of Poly(vinyl acetate) and Poly(vinyl chloride) and Their Blends. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2003</b> , 42, 3647-3653	3.9	53
462	Thermal degradation of poly( $\beta$ -methylstyrene) in solution. <i>Polymer Degradation and Stability</i> , <b>1996</b> , 52, 349-358	4.7	53
461	Detailed mechanism and kinetic study of CO oxidation on cobalt oxide surfaces. <i>Applied Catalysis A: General</i> , <b>2015</b> , 504, 463-475	5.1	52
460	Thermal degradation kinetics of thermoresponsive poly(N-isopropylacrylamide-co-N,N-dimethylacrylamide) copolymers prepared via RAFT polymerization. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2013</b> , 111, 753-761	4.1	52
459	Distribution kinetics theory of Ostwald ripening. <i>Journal of Chemical Physics</i> , <b>2001</b> , 115, 6699-6706	3.9	52

458	Synthesis, characterization, degradation of biodegradable castor oil based polyesters. <i>Polymer Degradation and Stability</i> , <b>2011</b> , 96, 1695-1704	4.7	51
457	An association model for the solubilities of pharmaceuticals in supercritical carbon dioxide. <i>Thermochimica Acta</i> , <b>2010</b> , 507-508, 99-105	2.9	51
456	Enhanced sunlight photocatalytic activity of Ag <sub>3</sub> PO <sub>4</sub> decorated novel combustion synthesis derived TiO <sub>2</sub> nanobelts for dye and bacterial degradation. <i>Photochemical and Photobiological Sciences</i> , <b>2015</b> , 14, 1227-37	4.2	50
455	Rapid synthesis of ultrahigh adsorption capacity zirconia by a solution combustion technique. <i>Langmuir</i> , <b>2011</b> , 27, 3578-87	4	50
454	Thermal degradation kinetics of polystyrene in solution. <i>Polymer Degradation and Stability</i> , <b>1997</b> , 58, 131-138	4.7	50
453	Kinetic Model for TiO <sub>2</sub> Polymorphic Transformation from Anatase to Rutile. <i>Journal of the American Ceramic Society</i> , <b>2007</b> , 90, 250-255	3.8	50
452	High rates of CO and hydrocarbon oxidation and NO reduction by CO over Ti <sub>0.99</sub> Pd <sub>0.01</sub> O <sub>1.99</sub> . <i>Applied Catalysis B: Environmental</i> , <b>2007</b> , 73, 300-310	21.8	50
451	Synthesis and characterization of flexible epoxy nanocomposites reinforced with amine functionalized alumina nanoparticles: a potential encapsulant for organic devices. <i>Polymer Chemistry</i> , <b>2011</b> , 2, 221-228	4.9	49
450	Microwave Synthesis and Photocatalytic Activity of Nano Lanthanide (Ce, Pr, and Nd) Orthovanadates. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2008</b> , 47, 6509-6516	3.9	49
449	Kinetics of Photocatalytic Degradation of Chlorophenol, Nitrophenol, and Their Mixtures. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2006</b> , 45, 482-486	3.9	49
448	Shape memory polyurethane nanocomposites with porous architectures for enhanced microwave shielding. <i>Chemical Engineering Journal</i> , <b>2018</b> , 352, 590-600	14.7	48
447	Pd and Pt ions as highly active sites for the water-gas shift reaction over combustion synthesized zirconia and zirconia-modified ceria. <i>Applied Catalysis B: Environmental</i> , <b>2010</b> , 96, 83-93	21.8	48
446	Electromagnetic interference shielding effectiveness of polyaniline-nickel oxide coated cenosphere composite film. <i>Composites Communications</i> , <b>2017</b> , 4, 37-42	6.7	47
445	Heterojunction ZnWO <sub>4</sub> /ZnFe <sub>2</sub> O <sub>4</sub> composites with concerted effects and integrated properties for enhanced photocatalytic hydrogen evolution. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 1083-1093	5.5	47
444	Industrial waste fly ash cenosphere composites based broad band microwave absorber. <i>Composites Part B: Engineering</i> , <b>2018</b> , 134, 151-163	10	47
443	Electrically driven intracellular and extracellular nanomanipulators evoke neurogenic/cardiomyogenic differentiation in human mesenchymal stem cells. <i>Biomaterials</i> , <b>2016</b> , 77, 26-43	15.6	47
442	Biofunctionalized surface-modified silver nanoparticles for gene delivery. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 5266-5276	7.3	47
441	Effect of inorganic ions, H <sub>2</sub> O <sub>2</sub> and pH on the photocatalytic inactivation of Escherichia coli with silver impregnated combustion synthesized TiO <sub>2</sub> catalyst. <i>Applied Catalysis B: Environmental</i> , <b>2011</b> , 106, 453-459	21.8	47



440	Ultrasonic degradation of polybutadiene and isotactic polypropylene. <i>Polymer Degradation and Stability</i> , <b>2004</b> , 85, 555-558	4.7	47
439	Synthesis and photocatalytic activity of poly(3-hexylthiophene)/TiO <sub>2</sub> composites. <i>Journal of Solid State Chemistry</i> , <b>2007</b> , 180, 2986-2989	3.3	46
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