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TITLE	CITED BY	YEAR
Effect of mesoporous ruthenium catalysts for hydrogenation of phenol in vapour phase reactor K Jeevanandham Indian Journal of Chemistry-Section A (IJCA) 58 (1), 36-44		2020
Catalytic activity of niobia supported graphene oxide for esterification of oleic acid A Pandurangan, P Hemalatha Indian Journal of Chemistry-Section A (IJCA) 56 (4), 379-386	1	2020
Sulfolane Mediated Highly Selective Synthesis of Mono and Bis-aryl-2-Methyl-6- Fluoro-Indoles and Their Halogenated Synthons KM Raju, RK Cheedarala*, A Pandurangan* Current Organic Chemistry 24 (19), 2283-2291		2020
NiF₂ as an efficient electrode material with high window potential of 1.8 V for high energy and power density asymmetric supercapacitor P Sivaprakash, KA Kumar, S Muthukumaran, A Pandurangan, A Dixit, ... Journal of Electroanalytical Chemistry 873, 114379	1	2020
Hybrid Ni-Boron Nitride Nanotube Magnetic Semiconductor□A New Material for Spintronics RV Adithya Lenin,† Pandurangan Arumugam,corresponding author*† Revathi ... ACS OMEGA 5 (32), 20014–20020.		2020
Chromium, fluorine and nitrogen tri-doped graphene sheets as an active electrode material for symmetric supercapacitors D Johnsirani, A Pandurangan Diamond and Related Materials 105, 107800-107811	2	2020
N, S codoped activated mesoporous carbon derived from the Datura metel seed pod as active electrodes for supercapacitors FRMS Raj, G Boopathi, NV Jaya, D Kalpana, A Pandurangan Diamond and Related Materials 102, 107687	1	2020
S-doped activated mesoporous carbon derived from the Borassus flabellifer flower as active electrodes for supercapacitors FRMS Raj, NV Jaya, G Boopathi, D Kalpana, A Pandurangan Materials Chemistry and Physics 240, 122151	8	2020
Heteropolyacid (H₃PW₁₂O₄₀)-impregnated mesoporous KIT-6 catalyst for green synthesis of bio-diesel using transesterification of non-edible neem oil P Sudhakar, A Pandurangan Materials for Renewable and Sustainable Energy 8 (4), 22	3	2019

TITLE	CITED BY	YEAR
Platinum-free metal sulfide counter electrodes for DSSC applications: Structural, electrochemical and power conversion efficiency analyses K Subalakshmi, KA Kumar, OP Paul, S Saraswathy, A Pandurangan, ... Solar Energy 193, 507-518	12	2019
Hydrothermal synthesis of three dimensional reduced graphene oxide-multiwalled carbon nanotube hybrids anchored with palladium-cerium oxide nanoparticles for alcohol oxidation ... D Rajesh, C Mahendiran, C Suresh, A Pandurangan, T Maiyalagan International Journal of Hydrogen Energy 44 (10), 4962-4973	11	2019
Effect of bi-functional hierarchical flower-like CoS nanostructure on its interfacial charge transport kinetics, magnetic and electrochemical behaviors for supercapacitor and ... KA Kumar, A Pandurangan, S Arumugam, M Sathiskumar Scientific reports 9 (1), 1-16	21	2019
Cyclohexadienone core 3, 6-di-tert-butylcarbazole decorated triazole bridged dendrimers: synthesis, photophysical and electrochemical properties and application as an additive ... J Babu, S Ganesan, KA Kumar, M Karuppusamy, A Pandurangan, ... New Journal of Chemistry 43 (10), 4036-4048	5	2019
Copper nanoparticles anchored onto boron-doped graphene nanosheets for use as a high performance asymmetric solid-state supercapacitor PM Pandian, A Pandurangan RSC advances 9 (6), 3443-3461	7	2019
Facile Synthesis of Mesoporous Carbon Spheres Using 3D Cubic Fe-KIT-6 by CVD Technique for the Application of Active Electrode Materials in Supercapacitors GG Karthikeyan, G Boopathi, A Pandurangan ACS omega 3 (12), 16658-16671	5	2018
Effect of NiO/Ni(OH)₂ nanostructures in graphene/CNT nanocomposites on their interfacial charge transport kinetics for high-performance supercapacitors NS Palani, NS Kavitha, KS Venkatesh, KA Kumar, V Thirumal, ... Journal of Solid State Electrochemistry 22 (10), 3273-3287	11	2018
Green synthesis of α-Fe₂O₃/BiPO₄ composite and its biopolymeric beads for enhanced photocatalytic application M Nithya, K Praveen, U Sathya, N Balasubramanian, A Pandurangan Journal of Materials Science: Materials in Electronics 29 (17), 14733-14745	7	2018
Interfacial charge transport studies and fabrication of high performance DSSC with ethylene cored unsymmetrical dendrimers as quasi electrolytes M Ravivarma, KA Kumar, P Rajakumar, A Pandurangan Journal of Molecular Liquids 265, 717-726	5	2018

TITLE	CITED BY	YEAR
Pd-NiO decorated multiwalled carbon nanotubes supported on reduced graphene oxide as an efficient electrocatalyst for ethanol oxidation in alkaline medium D Rajesh, PI Neel, A Pandurangan, C Mahendiran Applied Surface Science 442, 787-796	23	2018
Pt/Ni wet impregnated over Al incorporated mesoporous silicates: a highly efficient catalyst for anisole hydrodeoxygenation P Sudhakar, A Pandurangan Journal of Porous Materials 25 (3), 747-759	6	2018
Method for production of germanium nanowires encapsulated within multi-walled carbon nanotubes M Crocker, R Andrews, A Pandurangan, D Qian US Patent 9,950,926		2018
Dopant Effects of Gd³⁺ on the Electrochemical Pseudocapacitive Characteristics of Electroactive Mesoporous NiO Electrodes for Supercapacitors G Boopathi, GG Karthikeyan, SM Jaimohan, A Pandurangan, ... The Journal of Physical Chemistry C 122 (17), 9257-9274	13	2018
Effects of alumina on GO and KIT-6 supports for the acetylation of glycerol S Kanimozhi, V Ramani, A Pandurangan New Journal of Chemistry 42 (23), 18942-18950	2	2018
Selective Oxidation of Cyclohexane to KA Oil Over Ce-Alpo-18 Molecular Sieves MEL Preethi, A Umasankari, CH Rekha, M Palanichamy, T Sivakumar, ... International Journal of Engineering & Technology 7 (4.5), 352-354		2018
An efficient copper catalyzed 3D mesoporous aluminosilicate for the synthesis of dibenzodiazonines in the Ullmann cross-coupling reaction U Veerabagu, G Jaikumar, P Arumugam, S Shanmugam, L Fushen New Journal of Chemistry 42 (15), 13065-13073	1	2018
Up-gradation of α-tetralone to jet-fuel range hydrocarbons by vapour phase hydrodeoxygenation over PdNi/SBA-16 catalysts G Vijayakumar, A Pandurangan Energy 140, 1158-1172	8	2017
Solvothermal synthesis of hexagonal pyramidal and bifrustum shaped ZnO nanocrystals: natural betacyanin dye and organic Eosin Y dye sensitized DSSC efficiency, electron ... K Subalakshmi, J Senthilselvan, KA Kumar, SA Kumar, A Pandurangan Journal of Materials Science: Materials in Electronics 28 (20), 15565-15595	6	2017
Synthesis of Hf/SBA-15 Lewis acid catalyst for converting glycerol to value-added chemicals V Udayakumar, A Pandurangan Journal of Porous Materials 24 (4), 979-990	4	2017

TITLE	CITED BY	YEAR
<p>Confinement of Mn³⁺ redox sites in Mn-KIT-6 and its catalytic activity for styrene epoxidation</p> <p>N Anbazhagan, G Imran, A Qurashi, A Pandurangan, S Manimaran Microporous and Mesoporous Materials 247, 190-197</p>	7	2017
<p>Hydrodeoxygenation of vanillin using palladium on mesoporous KIT-6 in vapour phase reactor</p> <p>J Kayalvizhi, A Pandurangan Molecular Catalysis 436, 67-77</p>	17	2017
<p>A novel synthesis and preliminary <i>in vitro</i> cytotoxic evaluation of dihydropyrimidine-2,4(1<i>H</i>,3<i>H</i>)-dione derivatives</p> <p>V Udayakumar, J Gowsika, A Pandurangan Journal of Chemical Sciences 129 (2), 249-258</p>	4	2017
<p>Facile synthesis and supercapacitor performances of nitrogen doped CNTs grown over mesoporous Fe/SBA-15 catalyst</p> <p>R Ragavan, A Pandurangan New Journal of Chemistry 41 (20), 11591-11599</p>	4	2017
<p>Rh/Ni wet-impregnated Ia 3 d mesostructured aluminosilicate and r-GO catalysts for hydrodeoxygenation of phenoxybenzene</p> <p>S Pichaikaran, A Pandurangan New Journal of Chemistry 41 (16), 7893-7907</p>	11	2017
<p>Synthesis and characterization of boron doped graphene nanosheets for supercapacitor applications</p> <p>V Thirumal, A Pandurangan, R Jayavel, R Ilangoan Synthetic Metals 220, 524-532</p>	94	2016
<p>Synthesis of nitrogen doped coiled double walled carbon nanotubes by chemical vapor deposition method for supercapacitor applications</p> <p>V Thirumal, A Pandurangan, R Jayavel, SR Krishnamoorthi, R Ilangoan Current Applied Physics 16 (8), 816-825</p>	24	2016
<p>Synthesis of carbon nanotubes over 3D cubical Co-KIT-6 and nickel decorated graphene by Hummer's method, its application as counter electrode in dye sensitive solar cell</p> <p>S Subramanian, A Pandurangan AIP Conference Proceedings 1724 (1), 020121</p>		2016
<p>Modified solar power: electrochemical synthesis of Nitrogen doped few layer graphene for supercapacitor applications</p> <p>V Thirumal, A Pandurangan, D Jayakumar, R Ilangoan Journal of Materials Science: Materials in Electronics 27 (4), 3410-3419</p>	16	2016
<p>Preparation and characterization of carbon nanotubes for supercapacitor applications</p> <p>V Thirumal, A Pandurangan, R Jayavel, R Ilangoan Synth. Metals 220, 524-532</p>	2	2016

TITLE	CITED BY	YEAR
Synthesis of quinolines from glycerol over tungstic acid functionalized mesoporous KIT-6 catalyst in aqueous medium V Udayakumar, A Pandurangan NISCAIR-CSIR, India	6	2016
Vapour phase hydrodeoxygenation of anisole over ruthenium and nickel supported mesoporous aluminosilicate S Pichaikaran, P Arumugam Green Chemistry 18 (9), 2888-2899	37	2016
Synthesis and characterization of graphenated carbon nanotubes on IONPs using acetylene by chemical vapor deposition method R Atchudan, S Perumal, TNJI Edison, A Pandurangan, YR Lee Physica E: Low-dimensional Systems and Nanostructures 74, 355-362	25	2015
Synthesis and characterization of graphitic mesoporous carbon using metal-metal oxide by chemical vapor deposition method R Atchudan, S Perumal, D Karthikeyan, A Pandurangan, YR Lee Microporous and Mesoporous Materials 215, 123-132	36	2015
Single pot electrochemical synthesis of functionalized and phosphorus doped graphene nanosheets for supercapacitor applications V Thirumal, A Pandurangan, R Jayavel, KS Venkatesh, NS Palani, ... Journal of Materials Science: Materials in Electronics 26 (8), 6319-6328	32	2015
Effects of nanofillers on the thermo-mechanical properties and chemical resistivity of epoxy nanocomposites R Atchudan, A Pandurangan, J Joo Journal of Nanoscience and Nanotechnology 15 (6), 4255-4267	17	2015
Open ended nitrogen-doped carbon nanotubes for the electrochemical storage of energy in a supercapacitor electrode AR John, P Arumugam Journal of Power Sources 277, 387-392	44	2015
A novel route for the synthesis of alkanes from glycerol in a two step process using a Pd/SBA-15 catalyst V Udayakumar, A Pandurangan RSC advances 5 (96), 78719-78727	8	2015
Synthesis and Characterization of Y-Junction and Helical Carbon Nanotubes on Metal Impregnated Magnesium Oxide R Atchudan, S Perumal, A Pandurangan Advanced Science, Engineering and Medicine 7 (1), 47-52	1	2015
Facile synthesis of high quality multi-walled carbon nanotubes on novel 3D KIT-6: application in high performance dye-sensitized solar cells J Balamurugan, A Pandurangan, NH Kim, JH Lee Nanoscale 7 (2), 679-689	7	2015

TITLE	CITED BY	YEAR
Effect of H3PW12O40 impregnation on Sn-MCM-41 mesoporous molecular sieves and their physico-chemical properties D Nedumaran, A Pandurangan Materials Research Bulletin 61, 1-8	12	2015
Nickel/carbon core/shell nanotubes: Lanthanum nickel alloy catalyzed synthesis, characterization and studies on their ferromagnetic and lithium-ion storage properties JA Rajesh, A Pandurangan, C Senthil, M Sasidharan Materials Research Bulletin 60, 621-627	1	2014
Catalytic activity of mesoporous V/SBA-15 in the transesterification and esterification of fatty acids V Udayakumar, A Pandurangan Journal of Porous Materials 21 (6), 921-931	11	2014
Influence of Sm doping on the microstructural properties of CdS nanocrystals L Saravanan, R Jayavel, A Pandurangan, L Jih-Hsin, M Hsin-Yuan Powder technology 266, 407-411	20	2014
Studies on structural and magnetic properties of pristine and nickel-filled carbon nanotubes synthesized using LaNi5 alloy particles as a catalyst AR John, P Arumugam Chemical Engineering Journal 243, 436-447	17	2014
Low Temperature Growth of Double Walled Carbon Nanotubes Using FeMoMgO Catalyst T Somanathan, N Gokulakrishnan, A Pandurangan Journal of Nanoscience and Nanotechnology 14 (4), 3272-3276	3	2014
Extended Vapor–Liquid–Solid Growth of Silicon Carbide Nanowires JA Rajesh, A Pandurangan Journal of nanoscience and nanotechnology 14 (4), 2741-2751	4	2014
Zr mesoporous molecular sieves as novel solid acid catalysts in synthesizing nitrile and caprolactam D Nedumaran, A Pandurangan Journal of Nanoscience and Nanotechnology 14 (4), 2799-2809	6	2014
Synthesis, structural and optical properties of Sm³⁺ and Nd³⁺ doped cadmium sulfide nanocrystals L Saravanan, R Jayavel, A Pandurangan, L Jih-Hsin, M Hsin-Yuan Materials Research Bulletin 52, 128-133	22	2014
Fabrication of Solution Processed Carbon Nanotube Embedded Polyvinyl Alcohol Composite Film for Non-Volatile Memory Device SC Kishore, A Pandurangan Journal of Nanoscience and Nanotechnology 14 (3), 2381-2387	1	2014
1SG-1: An efficient synthesis of graphenated carbon nanotubes over the tailored mesoporous molecular sieves by chemical vapour deposition method R Atchudan, A Pandurangan 한국공업화학회 연구논문 초록집 2014, 106-106		2014