

List of Papers published during Jan 2017-Dec 2017

1. Enhanced catalytic properties of mesoporous mordenite for benzylation of benzene with benzyl alcohol
Sandeep K. Saxena, Nagabhatla Viswanadham
Applied Surface Science 392, 384-390, January 2017 **(3.150)**
<http://dx.doi.org/10.1016/j.apsusc.2016.09.062>
2. Desulphurization of gas oil in a packed bed extractor: Optimization of operating parameters for simultaneous maximization of efficiency and yield by desirability approach
Sunil Kumar, Vimal Chandra Srivastava;S M Nanoti, Pooja Yadav
Canadian Journal of Chemical Engineering 95(1), 142-149. Jan 2017 **(1.066)**
<http://dx.doi.org/10.1002/cjce.22661>
3. Techno-economic evaluation of top, middle, and bottom divided wall column configurations for benzene, toluene, and xylene processing in aromatic production plant
Sunil Kumar, Shrey Gupta, S M Nanoti
Separation Science and Technology 52(1),122-131, Jan 2017 **(1.083)**
<http://dx.doi.org/10.1080/01496395.2016.1250775>
4. Synthesis of a novel efficient antioxidant for use in lubes and biodiesel
Raj Kumar Singh, Aruna Kukrety, O P Sharma, Mukesh K Poddar, Neeraj Atray, S S Ray
Petroleum Chemistry 57,(1),100-105, January 2017 **(0.495)**
<http://dx.doi.org/10.1134/S096554411701011X>
5. Synthesis of RE Y zeolite for formulation of FCC catalyst and the catalytic performance in cracking of n-hexadecane
Nurudeen Salahudeen, Abdulkarim S Ahmed, Ala'a H Al-Muhtaseb, Mohammed Dauda, Baba Y Jibril, N Viswanadham, Sandeep K Saxena
Research on Chemical Intermediates 43(1) 467-479, Jan 2017 **(1.833)**
<http://dx.doi.org/10.1007/s11164-016-2635-3>
6. Investigating the effect of fuel cetane number, oxygen content, fuel density, and engine operating variables on NOx emissions of a heavy duty diesel engine
Devendra Singh, K A Subramanian, Manav Juneja, Kalyan Singh, Sathpal Singh, R Badola, Nishan Singh
Environmental Progress & Sustainable Energy 36(1), 214-221, Jan 2017 **(1.631)**
<http://dx.doi.org/10.1002/ep.12439>
7. Degradation of carbazole, dibenzothiophene and polyaromatic hydrocarbons by recombinant *Rhodococcus* sp.
Samiya Khan, D K Adhikari, Sanjay Gupta, Nidhi Gupta
Biotechnology Letters 39(2) 277-281, Feb 2017 **(1.639)**
<http://dx.doi.org/10.1007/s10529-016-2242-9>

8. Ex situ Cu(0) nanoparticle mediated SET-LRP of methyl methacrylate/styrene-methyl methacrylate in a biphasic toluene-water system
Ankushi Bansal, Nikita Singhal, Vineeta Panwar, Arvind Kumar, Umesh Kumar S S Ray
RSC Advances 7(18),11191-11197, Feb 2017 **(3.289)**
<http://dx.doi.org/10.1039/C7RA00368D>
9. Phosphazene-based novel organo-inorganic hybrid salt: synthesis, characterization and performance evaluation as multifunctional additive in polyol
Raj Kumar Singh, Aruna Kukrety, R C Saxena, Ajay Chouhan, Suman L Jain, S S Ray
RSC Advances 7(22),13390-13397, March 2017 **(3.289)**
<http://dx.doi.org/10.1039/c6ra26186h>
10. Effect of metal-support interaction on activity and stability of Ni-CeO₂ catalyst for partial oxidation of methane
Applied Catalysis B: Environmental, 202, 473-488, March 2017 **(8.328)**
Rajib Kumar Singha, Astha Shukla, Aditya Yadav, L.N. Sivakumar Konathala, Rajaram Bal
<http://dx.doi.org/10.1016/j.apcatb.2016.09.060>
11. Low temperature dry reforming of methane over Pd-CeO₂ nano-catalyst
Rajib Kumar Singha, Aditya Yadav, Astha Shukla, Manoj Kumar, Rajaram Bal
Catalysis Communication 92, 19-22, March 2017 **(3.398)**
<http://dx.doi.org/10.1016/j.catcom.2016.12.019>
12. Seven- Coordinated chiral uranyl(VI) salen complex as effective catalyst for C-H bond activation of dialkylanilines under visible light
Mohammad Azam, Saud I Agata Al-Resayes Trzesowska-Kruszynska, Rafal Kruszynski, Pawan Kumar, Suman L Jain
Polyhedron 124, 177-183, March 2017 **(2.108)**
<http://dx.doi.org/10.1016/j.poly.2016.12.033>
13. Nickel nanoparticles grafted on reduced graphene oxide (rGO/Ni) as efficient photocatalyst for reduction of nitroaromatics under visible light irradiation
Amer Al-Nafiey, Anurag Kumar, Malika Kumar, Ahmed Addad, Brigitte Sieber, Sabine Szunerits, Rabah Boukherroub, Suman L Jain
Journal of Photochemistry & Photobiology A: Chemistry 336, 198-207, March 2017 **(2.477)**
14. Cu functionalized nano crystalline ZSM-5 as efficient catalyst for selective oxidation of toluene
N. Viswanadham, Sandeep K. Saxena, Ala'a H. Al-Muhtaseb
Materials Today Chemistry 3,37-48, March 2017 **(NIF)**
15. Physicochemical and tribophysical properties of trioctylalkylammonium bis(salicylato)borate (N888n-BScB) ionic liquids: effect of alkyl chain length
Rashi Gusain, Paramjeet S Bakshi, Somenath Panda, O P Sharma, Ramesh Gardas, O P Khatri
Physical Chemistry Chemical Physics 19(9), 6433-6442, March 2017 **(4.449)**
<http://dx.doi.org/10.1039/C6CP05990B>

16. Recent Progress in the Preparation of Eco-friendly Lubricant and Fuel Additives through Organic Transformations of Biomaterials
Raj Kumar Singh, Aruna Kukrety, Ajay Chouhan, Neeraj Atray, S S Ray
Mini-Reviews in Organic Chemistry 14(1),44-55, March 2017 **(1.394)**
<http://dx.doi.org/10.2174/1570193x13666161102151906>
17. Pyrolytic degradation of polyethylene in autoclave under high pressure to obtain fuel
Archana Kumari, Sanat Kumar
Journal of Analytical and Applied Pyrolysis, 124, 298-302, March 2017 **(3.652)**
<http://dx.doi.org/10.1016/j.jaap.2017.01.020>
18. Highly efficient (CoOx-N@C, PANI) nanopowder derived from pyrolysis of polyaniline grafted cobalt acetate for oxidative methyl esterification of benzyl alcohols
Vineeta Panwar, S S. Ray, Suman L. Jain
Molecular Catalysis. 27, 1-33, Feb 2017 **(NIF)**
<http://dx.doi.org/10.1016/j.molcata.2016.11.027>
19. Challenges and prospects of xylitol production with whole cell bio-catalysis: A review
Diptarka Dasgupta, Seetal Bandhu, D K Adhikari, Debashish Ghosh
Microbiological Research 197, 9-21, April 2017 **(3.037)**
<http://dx.doi.org/10.1016/j.micres.2016.12.012>
20. Self-driven graft polymerization of vinyl monomers on poultry chicken feathers in the absence of initiator/ catalyst"
Padma Lata Patnam, S S Ray, A K Chatterjee, Suman L Jain
Journal of Applied Polymer Science 134(13), April 2017. **(1.86)**
<http://dx.doi.org/10.1002/app.44645>
21. Meliorate optical textures and mesophase contents by promising approach of deasphalting of petroleum residues
Subhash Kumar, Manoj Srivastava
Journal of Industrial and Engineering Chemistry 48, 133-141, April 2017 **(4.421)**
<http://dx.doi.org/10.1016/j.jiec.2016.12.031>
22. Crystal structure of fractionally crystallized waxes isolated from crude oil
Manisha Sahai, Ajay Kumar, Sanat Kumar
J of Applied Crystallography 50(2), 639-642, April 2017 **(2.495)**
<http://dx.doi.org/10.1107/S1600576717000711>
23. Lipids of Rhodotorula mucilaginosa IIPL32 with biodiesel potential: Oil yield, fatty acid profile, fuel properties
Mahesh Khot; Debashish Ghosh
Journal of Basic Microbiology 57(4), 345-352, April 2017 **(1.585)**
<https://doi.org/10.1002/jobm.201600618>
24. Fabrication of Visible-Light-Responsive InVO4 for Photoreduction of CO2

Nikita Singhal, Umesh Kumar
ChemistrySelect 2(12), 3534-3537, April 2017 (NIF)
<http://dx.doi.org/10.1002/slct.201700527>

25. Carbon nitride grafted cobalt complex (Co@npg-C₃N₄) for visible light assisted esterification of aldehydes
Anurag Kumar, Pawan Kumar, Abhishek Kumar Pathak, Appala Naidu Chokkapu, Suman L Jain
ChemistrySelect 2(12) 3437-3443, April 2017 (NIF)
<http://dx.doi.org/10.1002/slct.201602031>

26. Influence of Operating Parameters on the Tribological Performance of Oleic Acid-Functionalized Cu Nanofluids
Ajay Kumar, G D Thakre, Pankaj K Arya, A K Jain
Ind. Eng. Chem. Res 56(13) 3527-3541, April 2017 (2.843)
<http://dx.doi.org/10.1021/acs.iecr.6b04375>

27. Slurry-Phase Hydrocracking of Residue with Ultradispersed MoS₂ Catalysts Prepared by Microemulsion Methods
Ravindra Prajapati, Kirtika Kohli, S K Maity
Energy & Fuels 31(4) 3905-3912, April 2017 (3.091)
<http://dx.doi.org/10.1021/acs.energyfuels.7b00216>

28. Efficient solar photo-electrochemical hydrogen generation using nanocrystalline CeFeO₃ synthesized by a modified microwave assisted method
Nilesh R Manwar, Rajnikant G Borkar, Rohini Khobragade, Sadhana S Rayalu, Suman L Jain, Amit K Bansiwala, Nitin K Labhsetwar
International Journal of Hydrogen Energy 42(16), 10931-10942, April 2017 (3.582)
<http://dx.doi.org/10.1016/j.ijhydene.2017.01.227>

29. Core-shell structured reduced graphene oxide wrapped magnetically separable rGO@CuZnO@Fe₃O₄ microspheres as superior photocatalyst for CO₂ reduction under visible light
Pawan Kumar, Chetan Joshi, Alexandre Barras, Brigitte Sieber, Ahmed Addad, Luc Boussekey, Sabine Szunerits, Rabah Boukherroub, Suman L Jain
Applied Catalysis B: Environmental, 205, 654-665, May 2017 (9.446)
<http://dx.doi.org/10.1016/j.apcatb.2016.11.060>

30. Post combustion capture and simultaneous conversion of carbon dioxide using histidine derived ionic liquid at ambient conditions
Pradeep Kumar, Manish Varyani, Praveen K. Khatri, Subham Paul, Suman L. Jain
Journal of Industrial and Engineering Chemistry 49, 152-157, May, 2017 (4.421)
<http://dx.doi.org/10.1016/j.jiec.2017.01.022>

31. Investigation of anti-wear performance of automobile lubricants using thin layer activation analysis technique
Jayashree Biswal, G.D. Thakre, H.J. Pant, J.S. Samantray, P.K. Arya, S.C. Sharma, A.K. Gupta

Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with
Materials and Atoms, 399, 69-73, May 2017 **(1.389)**

<https://doi.org/10.1016/j.nimb.2017.03.143>

32. Multiple functionalities of Ni nanoparticles embedded in carboxymethyl guar gum polymer:
Catalytic activity and superparamagnetism
Debasmita Sardar, Manideepa Sengupta, Ankur Bardolui, Md. A. Ahmed, S.K. Neogi, Sudipta
Bandyopadhyay, Ruchi Jain, Chinnakonda S. Gopinath, Tanushree Bala
Applied Surface Science, 405, 231-239, May 2017 **(3.387)**
<http://dx.doi.org/10.1016/j.apsusc.2017.01.229>
33. Synthesis effects on activity and stability of Pt-CeO₂ catalysts for partial oxidation of methane
Rajib Kumar Singha, Astha Shukla, Aditya Yadav, Sumit Sain, Chandrasekhar Pendem, L.N.
Siva Kumar Konathala, Rajaram Bal
Molecular Catalysis, 432, 131-143, May 2017 **(Not Announced)**
<https://doi.org/10.1016/j.mcat.2017.01.006>
34. Role of Caesium in Higher Alcohol Synthesis over Modified Copper-Cobalt Nanocomposites
under Mild Conditions
Subhasis Das, Manideepa Sengupta, Ankur Bordoloi
ChemCatChem 9(10) 1845-1853, May 2017 **(4.803)**
<http://dx.doi.org/10.1002/cctc.201700013>
35. Effect of zeolite pore morphology on solvent-less alkylation of benzene with 1-hexene
Sandeep K Saxena, N Viswanadham, Ala'a H Al-Muhtaseb
Materials Today Chemistry 4, 45-52, June 2017 **(NSCI)**
<http://dx.doi.org/10.1016/j.mtchem.2016.12.004>
36. Low investigation in an industrial-scale soaker using radiotracer technique
H.J. Pant, Sunil Goswami, V.K. Sharma, S.K. Maity, M.O. Garg
Applied Radiation and Isotopes 124, 119-123, June 2017 **(1.128)**
<http://dx.doi.org/10.1016/j.apradiso.2017.03.012>
37. Octadecanethiol-grafted molybdenum disulfide nanosheets as oil-dispersible additive for
reduction of friction and wear
Sangita Kumari, Harshal P. Mungse, Rashi Gusain, Niranjana Kumar, Hiroyuki Sugimura, Om
P. Khatri
FlatChem, 3, 16-25, June 2017 **(NIF)**
<https://doi.org/10.1016/j.flatc.2017.06.004>
38. Modified revamp process to reduce energy use in an SDA unit
Sunil Kumar, S M Nanoti, M O Garg, R Amutha M V N Nandagopalu
Hydrocarbon Processing 96(6),43-46, June 2017 **(NSCI)**
39. Lignocellulosic sugar management for xylitol and ethanol fermentation with multiple cell
recycling by *Kluyveromyces marxianus* IPE453
Diptarka Dasgupta, Debashish Ghosh, Sheetal Bandhu, D K Adhikari

- Microbiological Research 200, 64-72, July 2017 **(3.037)**
<https://doi.org/10.1016/j.micres.2017.04.002>
40. Monitoring petroleum fuel adulteration: A review of analytical methods
V Bhanu Prasad, Pankaj K Kanaujia
Trends in Analytical Chemistry 92, 1-11, July 2017 **(8.442)**
<http://dx.doi.org/10.1016/j.trac.2017.04.011>
41. Kinetics and Feasibility Studies of Thiol Oxidation using Magnetically Separable Mg-Al Layered Double Hydroxide Supported Cobalt Phthalocyanine Catalyst
Deepak K Chauhan, Pawan Kumar, Rahul Painuly, Sunil Kumar, Suman L Jain, S K Ganguly,
Fuel Processing Technology 162, 135-146, July 2017 **(3.752)**
<http://dx.doi.org/10.1016/j.fuproc.2017.04.003>
42. Visible light assisted hydrogen generation from complete decomposition of hydrous hydrazine using rhodium modified TiO₂ photocatalyst
Pawan Kumar, Anurag Kumar, Clemence Queffelec, Dietrich Gudat, Qi Wang, Suman L Jain, Rabah Boukherroub, Sabine Szunerits
Photochemical & Photobiological Sciences 16(7), 1036-1042, July 2017 **(2.344)**
<http://dx.doi.org/10.1039/c6pp00432f>
43. Hydrotreatment of jatropha oil over NiMoS catalyst supported on thermostable mesoporous silica doped titania for the production of renewable drop-in diesel
Rohit Kumar, Saleem Akthar Farooqui, Mohit Anand, Rakesh Kumar, Rakesh Joshi, Azeem Khan, A K Sinha
Catalysis Communications 98, 102-106, July 2017 **(3.33)**
<https://doi.org/10.1016/j.catcom.2017.04.047>
44. Synthesis and Characterization of Iso-Undecenoic and Iso-Undecanoic Acids Based Polyol Esters
Sathyam Reddy Yasa, Saravanan Krishnasamy, Raj Kumar Singh, Vijayalakshmi Penumarthi
Ind. Eng. Chem. Res., 56 (26), 7423-7433, July 2017 **(2.843)**
<https://doi.org/10.1021/acs.iecr.7b01760>
45. Highly selective transfer hydrogenation of α,β -unsaturated carbonyl compounds using Cu-based nanocatalysts
Nazia Siddqui, Bipul Sarkar, Chandrashekar Pendem, Rubina Khatun, Konthala, L. N Sivakumar, Takehiko Sasaki, Ankur Bordoloi, Rajaram Bal
Catalysis Science & Technology 7(13), 2828-2837, July 2017 **(5.773)**
<https://doi.org/10.1039/c7cy00989e>
46. Facile synthesis of bio-fuel from glycerol over zinc aluminium phosphate nanoplates
Nagabhatla Viswanadham, Sandeep K. Saxena and P. Sreenivasulu
Sustainable Energy Fuels 1(5) 1018-1022, July 2017 **(NIF)**
<https://doi.org/10.1039/C7SE00225D>

47. Pyrolysis of agricultural biomass residues: Comparative study of corn cob, wheat straw, rice straw and rice husk
Bijoy Biswas, Nidhi Pandey, Yashasvi Bisht, Rawel Singh, Jitendra Kumar, Thallada Bhaskar
Bioresource Technology 237, 57-63, Aug 2017 **(5.651)**
<http://dx.doi.org/10.1016/j.biortech.2017.02.046>
48. Influence of Cu nanofluids on the rolling contact fatigue life of bearing steel
Prashant Thapliyal, G D Thakre
Engineering Failure Analysis 78 110-121, August 2017 **(1.676)**
<http://dx.doi.org/10.1016/j.engfailanal.2017.03.014>
49. Fabrication of reduced graphene oxide micro patterns by vacuum-ultraviolet irradiation: From chemical and structural evolution to improving patterning precision by light collimation
Yudi Tu, Hiroshi Nakamoto, Takashi Ichii, Toru Utsunomiya, O P Khatri, Hiroyuki Sugimura
Carbon 119, 82-90, August 2017 **(6.337)**
<https://doi.org/10.1016/j.carbon.2017.04.008>
50. Synthesis and catalytic activity of a Pd doped Ni-MgO catalyst for dry reforming of methane
Rajib K Singha, Astha Shukla, A Sandupatla, A, G Deo, Rajaram Bal
J. of Materials Chemistry A 5(30), 15688-15699, August 2017 **(8.867)**
<https://doi.org/10.1039/C7TA04452F>
51. High-Performance Multifunctional Fuel Additives Derived from Renewable Fatty Acids and Phosphazene
Praveen K Khatri, Mounika Aila, Aruna Kukrety, Piyush Gupta, Rakesh C Saxena, Raj K Sing, Suman L Jain
Journal of the American Oil Chemists' Society 94, (8), 1111-1119, August 2017 **(1.421)**
<https://doi.org/10.1007/s11746-017-3010-2>
52. Titania cowrapped α -Sulfur composite as a visible light active photocatalyst for hydrogen evolution using in-situ methanol from CO₂ as sacrificial agent.
Rajkumar Yadav, A K Sinha
ACS Sustainable Chem. Eng 5 (8), 6736-6745, Aug 2017 **(5.951)**
<https://doi.org/10.1021/acssuschemeng.7b00996>
53. Synthesis, characterization and application of CuO-CeO₂ nanocatalysts in wet air oxidation of industrial wastewater
Anushree, Satish Kumar, Chhaya Sharma
Journal of Environmental Chemical Engineering, 5(4) 3914-3921, August 2017 **(1.355)**
<https://doi.org/10.1016/j.jece.2017.07.061>
54. Facile route for the regioselective synthesis of 1,4-disubstituted 1,2,3-triazole using copper nanoparticles supported on nanocellulose as recyclable heterogeneous catalyst
Mitali Chetia, Abdul A Ali, Ankur Bordoloi, Diganta Sarma
Journal of Chemical Sciences 129 (8), 1211-1217, August 2017 **(1.235)**
<https://doi.org/10.1007/s12039-017-1318-y>

55. Reduced graphene oxide as an effective adsorbent for removal of malachite green dye:
Plausible adsorption pathways
KanikaGupta, O P Khatri
Journal of Colloid and Interface Science 501, 11-21, Sept 2017 (4.233)
<http://dx.doi.org/10.1016/j.jcis.2017.04.035>
56. A study of the synergy between support surface properties and catalyst deactivation for CO₂ reforming over supported Ni nanoparticles
Subhasis Das, Manideepa Sengupta, Jim Patel, Ankur Bordolo
Applied Catalysis A: General, 545, 113-126, September 2017 (4.339)
<https://doi.org/10.1016/j.apcata.2017.07.044>
57. Coking propensity during hydroprocessing of vacuum residues, deasphalted oils, and asphaltenes
Ravindra. Prajapati, Kritika. Kohli, S K Maity, M O Garg
Fuel 203, 514-521, September 2017 (4.601)
<https://doi.org/10.1016/j.fuel.2017.04.126>
58. Mesoporous γ -Alumina with Isolated Silica Sites for Direct Liquid Hydrocarbon Production during Fischer-Tropsch Reactions in Microchannel Reactor
Aditya Rai, Malayji G Sibi, Saleem A Farooqui, Mohit Anand, Asim Bhaumik, A K Sinha
ACS Sustainable Chemistry & Engineering 5(9), 7576-7586, Sept 2017 (5.951)
<http://dx.doi.org/10.1021/acssuschemeng.7b00874>
59. Role of Pyridinic Nitrogen on Base Catalyzed Knoevenagel Condensation over Pristine CN_x
Reena Goyal, Bipul Sarkar, Siddharth Sameer, Nikita Singhal, Ankur Bordoloi (NIF)
Chemistry Select 2(26), 8086-8090, Sept 2017
<https://doi.org/10.1002/slct.201701319>
60. Metal-organic hybrid: Photoreduction of CO₂ using graphitic carbon nitride supported heteroleptic iridium complex under visible light irradiation
Anurag Kumar, Pawan Kumar, Rajnikant Borkar, Amit Bansiwal , Nitin Labhsetwar , Suman L Jain
Carbon 123, 371-379, Oct 2017 (6.337)
<https://doi.org/10.1016/j.carbon.2017.07.080>
61. Pyrolysis of azolla, sargassum tenerrimum and water hyacinth for production of bio-oil
Bijoy Biswas, Rawel Singh, Bhavya B Krishna, Jitendra Kumar, Thallada Bhaskar
Bioresource Technology 242, 139-145, Oct 2017 (5.651)
<http://dx.doi.org/10.1016/j.biortech.2017.03.044>
62. Effects of temperature and solvent on hydrothermal liquefaction of Sargassum tenerrimum algae
Bijoy Biswas, Aishwarya Arun Kumar, Yashasvi Bisht, Rawel Singh, Jitendra Kumar, Thallada Bhaskar
Bioresource Technology 242, 344-350, Oct 2017 (5.651)

<http://dx.doi.org/10.1016/j.biortech.2017.03.045>

63. Kinetic modeling for catalytic cracking of pyrolysis oils with VGO in a FCC unit
D V Naik, Varaha Karthik, Vimal Kumar, Basheshwar Prasad, M O Garg
Chemical Engineering Science 170, 790-798, Oct 2017 **(2.895)**
<http://dx.doi.org/10.1016/j.ces.2017.01.048>
64. Cu/Cu₂O nanoparticle interface: Rational designing of a heterogeneous catalyst system for selective hydroamination
Manideepa Sengupta, Subhasis Das, Ankur Bordoloi
Molecular Catalysis, 440, 57-65, October 2017 **(NIF)**
<https://doi.org/10.1016/j.mcat.2017.05.028>
65. Noble metal modified TiO₂: selective photoreduction of CO₂ to hydrocarbons
Nikita Singhal, Umesh Kumar
Molecular Catalysis 439, 91-99, Oct 2017 **(NIF)**
<https://doi.org/10.1016/j.mcat.2017.06.031>
66. Lubrication capabilities of amino acid based ionic liquids as green bio-lubricant additives
Ponnekanti Nagendramma, Praveen K Khatri, G D Thakre, Suman L Jain
Journal of Molecular Liquids 244, 219-225, Oct 2017 **(3.648)**
<https://doi.org/10.1016/j.molliq.2017.08.115>
67. Pt-CeO₂ nanoporous spheres - an excellent catalyst for partial oxidation of methane: effect of the bimodal pore structure
Rajiv K Singha, Astha Shukla, A Yadav, T Sasaki, A Sandupatla, G Deo, Rajaram Bal
Catalysis Science & Technology 20, 4520-4735, Oct 2017 **(5.773)**
<https://doi.org/10.1039/c7cy01493g>
68. Extractive desulfurization of gas oils: A perspective review for use in petroleum refineries
Sunil Kumar, V C Srivastava, S M Nanoti
Separation and Purification Reviews 46(4)319-347, Oct 2017 **(6.077)**
<http://dx.doi.org/10.1080/15422119.2017.1288633>
69. MoO₃ nanoclusters decorated on TiO₂ nanoroads for oxidative dehydrogenation of ethane to ethylene
Bipul Sarkar, Reena Goyal, L.N. Sivakumar Konathala, Chandrashekar Pendem, Takehiko Sasaki, Rajaram Bal
Applied Catalysis B: Environmental, 217, 637-649, November 2017 **(9.446)**
<https://doi.org/10.1016/j.apcatb.2017.06.037>
70. Valorization of waste “date seeds” bio-glycerol for synthesizing oxidative green fuel additive
Original Research Article
Farrukh Jamil, Sandeep K. Saxena, Ala'a H. Al-Muhtaseb, Mahad Baawain, Mohammed Al-Abri, Nagabhatla Viswanadham, Gopalakrishnan Kumar, Ahmad M. Abu-Jrai
Journal of Cleaner Production 165, 1090-1096, November 2017 **(5.715)**

<https://doi.org/10.1016/j.jclepro.2017.07.216>

71. Thermal decomposition kinetics of sorghum straw via thermogravimetric analysis

Vaibhav Dhyani, Jitendra Kumar, Thallada Bhaskar

Bioresource Technology 245, Part A, 1122-1129, December 2017

(5.651)

<https://doi.org/10.1016/j.biortech.2017.08.189>