**Decomposition of organic**

1

Self-accelerating decomposition temperature and quantitative structure–property relationship of organic peroxides
Process Safety and Environmental Protection, In Press, Corrected Proof, Available online 12 August 2014
Yanjie Gao, Yan Xue, Zhi-guo Lǚ, Ziheng Wang, Qiang Chen, Ning Shi, Feng Sun
[PDF (886 K)](file:///I%3A%5C5%5C1.pdf)
2

Prediction of the self-accelerating decomposition temperature of organic peroxides using the quantitative structure–property relationship (QSPR) approach
Journal of Loss Prevention in the Process Industries, Volume 31, September 2014, Pages 41-49
Yong Pan, Yinyan Zhang, Juncheng Jiang, Li Ding
[PDF (492 K)](file:///I%3A%5C5%5C2.pdf)
3

Synthesis and photocatalytic activities of CdS/TiO2 nanoparticles supported on carbon nanofibers for high efficient adsorption and simultaneous decomposition of organic dyes
Journal of Colloid and Interface Science, Volume 434, 15 November 2014, Pages 159-166
Bishweshwar Pant, Nasser A.M. Barakat, Hem Raj Pant, Mira Park, Prem Singh Saud, Jong-Wan Kim, Hak-Yong Kim
[PDF (2090 K)](file:///I%3A%5C5%5C3.pdf)

4
Thermal decomposition kinetic of 1,1-di(tert-butylperoxy)cyclohexane in organic solvents
Thermochimica Acta, Volume 589, 10 August 2014, Pages 270-277
I. Ben Talouba, N. Bensahlam, H. Medjkoune, N. Mouhab, L. Balland, M.A. Abdelghani-Idrissi
[PDF (1850 K)](file:///I%3A%5C5%5C4.pdf)

5
Thermal risk evaluation on decomposition processes for four organic peroxides
Thermochimica Acta, Volume 589, 10 August 2014, Pages 11-18
Jiayu Lv, Wanghua Chen, Liping Chen, Yintao Tian, Jiaojiao Yan
[PDF (2124 K)](file:///I%3A%5C5%5C5.pdf)
6

Prediction of the thermal decomposition of organic peroxides by validated QSPR models
Journal of Hazardous Materials, Volume 276, 15 July 2014, Pages 216-224
Vinca Prana, Patricia Rotureau, Guillaume Fayet, David André, Serge Hub, Patricia Vicot, Li Rao, Carlo Adamo
[PDF (1628 K)](file:///I%3A%5C5%5C6.pdf)

7
Decomposition of 2-naphthol in water using a non-thermal plasma reactor
Chemical Engineering Journal, Volume 260, 15 January 2015, Pages 188-198
Edvinas Krugly, Dainius Martuzevicius, Martynas Tichonovas, Dalia Jankunaite, Inga Rumskaite, Jolanta Sedlina, Viktoras Racys, Jonas Baltrusaitis
[PDF (1371 K)](file:///I%3A%5C5%5C7.pdf)
8

VOC emission from alumina calcination stacks caused by thermal decomposition of organic additives
Journal of Environmental Chemical Engineering, Volume 2, Issue 1, March 2014, Pages 626-631
Lathe A. Jones, Andreas Ott, James Tardio, Paul Morrison, Steve Rosenberg, Martin Gunda, Suresh K. Bhargava
[PDF (481 K)](file:///I%3A%5C5%5C8.pdf)
9

Sulfurized limonite as material for fast decomposition of organic compounds by heterogeneous Fenton reaction
Journal of Hazardous Materials, Volume 278, 15 August 2014, Pages 426-432
Kei Toda, Toshinori Tanaka, Yutaka Tsuda, Masahiro Ban, Edwin P. Koveke, Michio Koinuma, Shin-Ichi Ohira
[PDF (2442 K)](file:///I%3A%5C5%5C9.pdf)
10

Thermal decomposition of Huadian oil shale. Part 1. Critical organic intermediates
Fuel, Volume 121, 1 April 2014, Pages 109-116
Qingyou Li, Xiangxin Han, Qingqing Liu, Xiumin Jiang
[PDF (1443 K)](file:///I%3A%5C5%5C10.pdf)
11

Aluminum sheet-based S-doped TiO2 for photocatalytic decomposition of toxic organic vapors
Chinese Journal of Catalysis, Volume 35, Issue 7, July 2014, Pages 1189-1195
Wan-Kuen Jo, Hyun-Jung Kang
[PDF (570 K)](file:///I%3A%5C5%5C11.pdf)
12

Potential kinetic model for thermal decomposition of complex organic compounds: Significance of parameters and engineering application
Thermochimica Acta, Volume 591, 10 September 2014, Pages 81-95
R. Font
[PDF (1061 K)](file:///I%3A%5C5%5C12.pdf)
13

Hybrid photocatalysts composed of titania modified with plasmonic nanoparticles and ruthenium complexes for decomposition of organic compounds
Applied Catalysis B: Environmental, In Press, Corrected Proof, Available online 13 October 2014
Ewa Kowalska, Kenta Yoshiiri, Zhishun Wei, Shuaizhi Zheng, Evelyn Kastl, Hynd Remita, Bunsho Ohtani, Sven Rau
[PDF (2040 K)](file:///I%3A%5C5%5C13.pdf)
14

Toward UV-curable urethane acrylate/silica hybrid coatings: Introducing urethane methacrylate trimethoxysilane (UAMS) as organic–inorganic coupling agent
Progress in Organic Coatings, Volume 77, Issue 11, November 2014, Pages 1957-1965
Farhood Najafi, Ehsan Bakhshandeh, Behzad Shirkavand Hadavand, Mohammad Reza Saeb
[PDF (1715 K)](file:///I%3A%5C5%5C14.pdf)

15
Decomposition of high molecular weight carboxylic acid in aqueous solution by submerged thermal plasma
Chemical Engineering Journal, Volume 244, 15 May 2014, Pages 178-187
Sanaz Safa, Gervais Soucy
[PDF (2570 K)](file:///I%3A%5C5%5C15.pdf)

16
Effects of arc rotation speed on BTX decomposition by atmospheric pressure plasma
Chemical Engineering Research and Design, Volume 92, Issue 6, June 2014, Pages 1163-1168
Hyun-Woo Park, Dong-Wha Park
[PDF (1801 K)](file:///I%3A%5C5%5C16.pdf)

17
Catalytic oxidation of organic pollutants on pristine and surface nitrogen-modified carbon nanotubes with sulfate radicals
Applied Catalysis B: Environmental, Volumes 154–155, July–August 2014, Pages 134-141
Hongqi Sun, ChungKeat Kwan, Alexandra Suvorova, Ha Ming Ang, Moses O. Tadé, Shaobin Wang
[PDF (1529 K)](file:///I%3A%5C5%5C17.pdf)

18
Decomposition of sulfur compounds by radiolysis: I. Influential factors
Chemical Engineering Journal, Volume 262, 15 February 2015, Pages 217-223
Youn-Suk Son, Jo-Chun Kim
[PDF (716 K)](file:///I%3A%5C5%5C18.pdf)

19
Effect of thermal regeneration of spent activated carbon on volatile organic compound adsorption performances
Journal of the Taiwan Institute of Chemical Engineers, Volume 45, Issue 4, July 2014, Pages 1733-1738
Irfan Khursheed Shah, Pascaline Pre, B.J. Alappat
[PDF (1278 K)](file:///I%3A%5C5%5C19.pdf)
20

Removal of total organic carbon (TOC) residues from power plant make-up water by activated carbon
Journal of Water Process Engineering, Volume 3, September 2014, Pages 46-52
Tero Luukkonen, Emma-Tuulia Tolonen, Hanna Runtti, Jaakko Pellinen, Tao Hu, Jaakko Rämö, Ulla Lassi
[PDF (2138 K)](file:///I%3A%5C5%5C20.pdf)
21

Carbon material formation on SBA-15 and Ni-SBA-15 and residue constituents during acetylene decomposition
Journal of Hazardous Materials, Volume 276, 15 July 2014, Pages 43-51
Hung-Lung Chiang, Trong-Neng Wu, Yung-Shou Ho, Li-Xuan Zeng
[PDF (3975 K)](file:///I%3A%5C5%5C21.pdf)

22
Thermal stability of working fluids for organic Rankine cycles: An improved survey method and experimental results for cyclopentane, isopentane and n-butane
Applied Thermal Engineering, Volume 73, Issue 1, 5 December 2014, Pages 762-772
Marco Pasetti, Costante M. Invernizzi, Paolo Iora
[PDF (1700 K)](file:///I%3A%5C5%5C22.pdf)

23
A sunlight assisted dual purpose photoelectrochemical cell for low voltage removal of heavy metals and organic pollutants in wastewater
Chemical Engineering Journal, Volume 244, 15 May 2014, Pages 411-421
Gwangjun Kim, Ebenezer T. Igunnu, George Z. Chen
[PDF (3114 K)](file:///I%3A%5C5%5C23.pdf)

24
Incorporation of a dioxomolybdenum(VI) complex in a ZrIV-based Metal–Organic Framework and its application in catalytic olefin epoxidation
Microporous and Mesoporous Materials, Volume 202, 15 January 2015, Pages 106-114
Patrícia Neves, Ana C. Gomes, Tatiana R. Amarante, Filipe A. Almeida Paz, Martyn Pillinger, Isabel S. Gonçalves, Anabela A. Valente
[PDF (1746 K)](file:///I%3A%5C5%5C24.pdf)

25
Au and Cu recovery from printed boards by decomposition of epoxy resin in supercritical water
The Journal of Supercritical Fluids, In Press, Accepted Manuscript, Available online 23 October 2014
Yuta Matsumoto, Yoshito Oshima
[PDF (574 K)](file:///I%3A%5C5%5C25.pdf)

26
Sandwich-structured AgCl@Ag@TiO2 with excellent visible-light photocatalytic activity for organic pollutant degradation and E. coli K12 inactivation
Applied Catalysis B: Environmental, Volumes 158–159, October 2014, Pages 76-84
Baozhu Tian, Rongfang Dong, Jingming Zhang, Shenyuan Bao, Fan Yang, Jinlong Zhang
[PDF (2665 K)](file:///I%3A%5C5%5C26.pdf)

27
Evaluation of thermophilic fungal consortium for organic municipal solid waste composting
Bioresource Technology, Volume 168, September 2014, Pages 214-221
Mukesh Kumar Awasthi, Akhilesh Kumar Pandey, Jamaluddin Khan, Pushpendra Singh Bundela, Jonathan W.C. Wong, Ammaiyappan Selvam
[PDF (502 K)](file:///I%3A%5C5%5C27.pdf)

28
Cu2O/BiVO4 heterostructures: synthesis and application in simultaneous photocatalytic oxidation of organic dyes and reduction of Cr(VI) under visible light
Chemical Engineering Journal, Volume 255, 1 November 2014, Pages 394-402
Qing Yuan, Lang Chen, Miao Xiong, Jie He, Sheng-Lian Luo, Chak-Tong Au, Shuang-Feng Yin
[PDF (923 K)](file:///I%3A%5C5%5C28.pdf)

29
Enhanced decomposition of dyes by hemin-ACF with significant improvement in pH tolerance and stability
Journal of Hazardous Materials, Volume 264, 15 January 2014, Pages 323-331
Yuyuan Yao, Yajun Mao, Qunfeng Huang, Lie Wang, Zhengfu Huang, Wangyang Lu, Wenxing Chen
[PDF (3018 K)](file:///I%3A%5C5%5C29.pdf)

30
Direct thermochemical liquefaction of microcrystalline cellulose by sub- and supercritical organic solvents
The Journal of Supercritical Fluids, Volume 95, November 2014, Pages 175-186
Anton Koriakin, Hai Van Nguyen, Doo Wook Kim, Chang-Ha Lee
[PDF (2764 K)](file:///I%3A%5C5%5C30.pdf)

31
Thermogravimetric investigation on characteristic of biomass combustion under the effect of organic calcium compounds
Bioresource Technology, In Press, Accepted Manuscript, Available online 23 October 2014
Zhang Lihui, Duan Feng, Huang Yaji
[PDF (800 K)](file:///I%3A%5C5%5C31.pdf)
32

Hydrocarbon oxidation over Fe- and Cr-containing metal-organic frameworks MIL-100 and MIL-101–a comparative study
Catalysis Today, Volume 238, December 2014, Pages 54-61
Oxana A. Kholdeeva, Igor Y. Skobelev, Irina D. Ivanchikova, Konstantin A. Kovalenko, Vladimir P. Fedin, Alexander B. Sorokin
[PDF (1937 K)](file:///I%3A%5C5%5C32.pdf)
33

XRD and TG-FTIR study of the effect of mineral matrix on the pyrolysis and combustion of organic matter in shale char
Fuel, Volume 139, 1 January 2015, Pages 502-510
Chao Fan, Junwei Yan, Yiru Huang, Xiangxin Han, Xiumin Jiang
[PDF (1514 K)](file:///I%3A%5C5%5C33.pdf)

34
Dechlorination and decomposition of trichloroacetic acid by glow discharge plasma in aqueous solution
Electrochimica Acta, Volume 115, 1 January 2014, Pages 332-336
Wang Lei, Zeng Huifen, Yu Xin
[PDF (622 K)](file:///I%3A%5C5%5C34.pdf)
35

Tar evolution in a two stage fluid bed–plasma gasification process for waste valorization
Fuel Processing Technology, Volume 128, December 2014, Pages 146-157
Massimiliano Materazzi, Paola Lettieri, Luca Mazzei, Richard Taylor, Chris Chapman
[PDF (2660 K)](file:///I%3A%5C5%5C35.pdf)

36
Pyrolysis characteristics and kinetic analysis of different dewatered sludge
Bioresource Technology, Volume 170, October 2014, Pages 325-330
Qiang Zhang, Huan Liu, Peng Liu, Hongyun Hu, Hong Yao
[PDF (501 K)](file:///I%3A%5C5%5C36.pdf)

37
Hydrothermal decomposition of liquid crystal in subcritical water
Journal of Hazardous Materials, Volume 271, 30 April 2014, Pages 236-244
Xuning Zhuang, Wenzhi He, Guangming Li, Juwen Huang, Shangming Lu, Lianjiao Hou
[PDF (893 K)](file:///I%3A%5C5%5C37.pdf)
38

Preparation and characterization of CaO nanoparticles from Ca(OH)2 by direct thermal decomposition method
Journal of Industrial and Engineering Chemistry, Volume 20, Issue 1, 25 January 2014, Pages 113-117
Zahra Mirghiasi, Fereshteh Bakhtiari, Esmaeel Darezereshki, Esmat Esmaeilzadeh
[PDF (1398 K)](file:///I%3A%5C5%5C38.pdf)

39
Effect of particle size on thermal decomposition of alkali metal picrates
Thermochimica Acta, Volume 583, 10 May 2014, Pages 78-85
Rui Liu, Tonglai Zhang, Li Yang, Zunning Zhou
[PDF (1600 K)](file:///I%3A%5C5%5C39.pdf)
40

Thermal decomposition behaviour of diglycolamide – Nitric acid system
Thermochimica Acta, Volume 583, 10 May 2014, Pages 59-66
K. Chandran, K.A. Venkatesan, S. Anthonysamy, T.G. Srinivasan
[PDF (812 K)](file:///I%3A%5C5%5C40.pdf)
41

Copper-aluminum oxide catalysts for total oxidation of toluene synthesized by thermal decomposition of co-precipitated precursors
Thermochimica Acta, Volume 590, 20 August 2014, Pages 191-197
Anna Białas, Piotr Kuśtrowski, Barbara Dudek, Zofia Piwowarska, Anna Wach, Marek Michalik, Marek Kozak
[PDF (1414 K)](file:///I%3A%5C5%5C41.pdf)

42
Photocatalytic decomposition of cortisone acetate in aqueous solution
Journal of Hazardous Materials, In Press, Corrected Proof, Available online 4 June 2014
Joana Sobral Romão, Mohamed S. Hamdy, Guido Mul, Jonas Baltrusaitis
[PDF (1957 K)](file:///I%3A%5C5%5C42.pdf)

43
Dual roles of dissolved organic matter in photo-irradiated Fe(III)-contained waters
Journal of Photochemistry and Photobiology A: Chemistry, Volume 290, 15 September 2014, Pages 116-124
Tsz-Wai Ng, Alex T. Chow, Po-Keung Wong
[PDF (1010 K)](file:///I%3A%5C5%5C43.pdf)
44

Photocatalytic decomposition of benzo-[a]-pyrene on the surface of acrylic, latex and mineral paints. Influence of paint composition
Journal of Photochemistry and Photobiology A: Chemistry, Volume 286, 15 July 2014, Pages 10-15
B. Tryba, P. Homa, R.J. Wróbel, A.W. Morawski
[PDF (1876 K)](file:///I%3A%5C5%5C44.pdf)
45

Changes in physical, chemical, and microbiological properties during the two-stage co-composting of green waste with spent mushroom compost and biochar
Bioresource Technology, Volume 171, November 2014, Pages 274-284
Lu Zhang, Xiangyang Sun
[PDF (1807 K)](file:///I%3A%5C5%5C45.pdf)

46
Anatase TiO2 mesocrystals with exposed (0 0 1) surface for enhanced photocatalytic decomposition capability toward gaseous styrene
Catalysis Today, Volume 224, 1 April 2014, Pages 216-224
Jiangyao Chen, Guiying Li, Haimin Zhang, Porun Liu, Huijun Zhao, Taicheng An
[PDF (3660 K)](file:///I%3A%5C5%5C46.pdf)

47
Competitive adsorption and selectivity of benzene and water vapor on the microporous metal organic frameworks (HKUST-1)
Chemical Engineering Journal, Volume 259, 1 January 2015, Pages 79-89
Zhenxia Zhao, Sha Wang, Yan Yang, Xuemei Li, Jing Li, Zhong Li
[PDF (1153 K)](file:///I%3A%5C5%5C47.pdf)

48
Removal of 1,4-dioxane from industrial wastewaters: Routes of decomposition under different operational conditions to determine the ozone oxidation capacity
Journal of Hazardous Materials, Volume 280, 15 September 2014, Pages 340-347
Helen Barndõk, Luis Cortijo, Daphne Hermosilla, Carlos Negro, Ángeles Blanco
[PDF (1706 K)](file:///I%3A%5C5%5C48.pdf)
49

Catalytic decomposition of benzothiophenic and dibenzothiophenic sulfones over MgO-based catalysts
Applied Catalysis B: Environmental, Volumes 148–149, 27 April 2014, Pages 80-90
Ramanathan Sundararaman, Chunshan Song
[PDF (1917 K)](file:///I%3A%5C5%5C49.pdf)
50

Simulation approach to benzoyl peroxide decomposition kinetics by thermal calorimetric technique
Journal of the Taiwan Institute of Chemical Engineers, Volume 45, Issue 1, January 2014, Pages 115-120
Ming-Hsun Lee, Jiann-Rong Chen, Gong-Yih Shiue, Yan-Fu Lin, Chi-Min Shu
[PDF (626 K)](file:///I%3A%5C5%5C50.pdf50.pdf)

51
What is the potential for biogas digesters to improve soil carbon sequestration in Sub-Saharan Africa? Comparison with other uses of organic residues
Biomass and Bioenergy, In Press, Corrected Proof, Available online 12 March 2014
Jo Smith, Assefa Abegaz, Robin Matthews, Madhu Subedi, Bob Orskov, Vianney Tumwesige, Pete Smith
[PDF (939 K)](file:///I%3A%5C5%5C51.pdf)

52
An investigation of the thermal decomposition of silver acetate as a precursor for nano-sized Ag-catalyst
Thermochimica Acta, Volume 581, 10 April 2014, Pages 110-117
Bahaa M. Abu-Zied, Abdullah M. Asiri
[PDF (4248 K)](file:///I%3A%5C5%5C52.pdf)
53

Fluorine promoted and silica supported TiO2 for photocatalytic decomposition of acrylonitrile under simulant solar light irradiation
Chemical Engineering Journal, Volume 258, 15 December 2014, Pages 43-50
Dandan Pang, Yunteng Wang, Xiaodong Ma, Feng Ouyang
[PDF (1578 K)](file:///I%3A%5C5%5C53.pdf)

54
Study on the effect of poly(oxypropylene)diamine modified organic montmorillonite on curing kinetics of epoxy nanocomposties
Thermochimica Acta, In Press, Accepted Manuscript, Available online 17 October 2014
Le Li, Huawei Zou, Mei Liang
[PDF (1280 K)](file:///I%3A%5C5%5C54.pdf)

55
Effects of phase transfer ligands on monodisperse iron oxide magnetic nanoparticles
Journal of Colloid and Interface Science, Volume 437, 1 January 2015, Pages 147-155
Susana I.C.J. Palma, Marzia Marciello, Alexandra Carvalho, Sabino Veintemillas-Verdaguer, Maria del Puerto Morales, Ana C.A. Roque
[PDF (1318 K)](file:///I%3A%5C5%5C55.pdf)

56
Pressurized thermal and hydrothermal decomposition of algae, wood chip residue, and grape marc: A comparative study
Biomass and Bioenergy, In Press, Corrected Proof, Available online 15 September 2014
Dirgarini J.N. Subagyono, Marc Marshall, W. Roy Jackson, Alan L. Chaffee
[PDF (1556 K)](file:///I%3A%5C5%5C56.pdf)

57
Steam gasification of safflower seed cake and catalytic tar decomposition over ceria modified iron oxide catalysts
Fuel Processing Technology, Volume 126, October 2014, Pages 276-283
Gozde Duman, Taichi Watanabe, Md. Azhar Uddin, Jale Yanik
[PDF (960 K)](file:///I%3A%5C5%5C57.pdf)

58
One-step approach for synthesis of nanosized Cu-doped zeolite A crystals using the Cu–EDTA-complex
Microporous and Mesoporous Materials, Volume 199, 15 November 2014, Pages 18-28
Ivan Yordanov, Inna Karatchevtseva, Hubert Chevreau, Maxim Avdeev, Rohan Holmes, Gordon Thorogood, Tracey Hanley
[PDF (1996 K)](file:///I%3A%5C5%5C58.pdf)

59
Aging of the photocatalytic TiO2 thin films modified by Ag and Pt
Applied Catalysis B: Environmental, Volumes 160–161, November 2014, Pages 51-56
P. Hájková, J. Matoušek, P. Antoš
[PDF (2033 K)](file:///I%3A%5C5%5C59.pdf)
60

Free-radical polymerization of itaconic acid in the presence of choline salts: Mechanism of persulfate decomposition
Catalysis Today, In Press, Corrected Proof, Available online 10 August 2014
Szczepan Bednarz, Alicja Błaszczyk, Diana Błażejewska, Dariusz Bogdał
[PDF (649 K)](file:///I%3A%5C5%5C60.pdf)
61

Catalytic performance of carbon nanotubes in H2O2 decomposition: Experimental and quantum chemical study
Journal of Colloid and Interface Science, Volume 437, 1 January 2015, Pages 283-290
Katerina Voitko, Ajna Tóth, Evgenij Demianenko, Gábor Dobos, Barbara Berke, Olga Bakalinska, Anatolij Grebenyuk, Etelka Tombácz, Volodymyr Kuts, Yurij Tarasenko, Mykola Kartel, Krisztina László
[PDF (941 K)](file:///I%3A%5C5%5C61.pdf)
62

Kinetic and thermodynamic investigations of non-isothermal decomposition process of a commercial silver nitrate in an argon atmosphere used as the precursors for ultrasonic spray pyrolysis (USP): The mechanistic approach
Chemical Engineering and Processing: Process Intensification, Volume 82, August 2014, Pages 71-87
Bojan Janković, Srećko Stopić, Jelena Bogović, Bernd Friedrich
[PDF (2993 K)](file:///I%3A%5C5%5C62.pdf)
63

Promotion of Ni/clay catalytic activity for hydrogenation of naphthalene by organic modification of clay
Chinese Journal of Catalysis, Volume 35, Issue 4, April 2014, Pages 546-552
Shibiao Ren, Hongzhi Wen, Xianzhong Cao, Zhicai Wang, Zhiping Lei, Chunxiu Pan, Shigang Kang, Hengfu Shui
[PDF (2158 K)](file:///I%3A%5C5%5C63.pdf)
64

Mesoporous silica supported Rh catalysts for high concentration N2O decomposition
Applied Catalysis B: Environmental, Volume 165, April 2015, Pages 158-168
Marco Piumetti, Murid Hussain, Debora Fino, Nunzio Russo
[PDF (2433 K)](file:///I%3A%5C5%5C64.pdf)
65

The effect of increased extraction of forest harvest residues on soil organic carbon accumulation in Sweden
Biomass and Bioenergy, In Press, Corrected Proof, Available online 22 September 2014
Carina A. Ortiz, Mattias Lundblad, Anders Lundström, Johan Stendahl
[PDF (952 K)](file:///I%3A%5C5%5C65.pdf)
66

From inorganic/organic nanocomposite based on chemically hybridized CdS–TGA to pure CdS nanoparticles
Journal of Industrial and Engineering Chemistry, In Press, Corrected Proof, Available online 10 May 2014
Fatemeh Davar, Mohammad Reza Loghman-Estarki, Rouholah Ashiri
[PDF (2960 K)](file:///I%3A%5C5%5C66.pdf)
67

Photocatalytic decomposition of NH3 over TiO2 catalysts doped with Fe
Applied Catalysis B: Environmental, Volumes 160–161, November 2014, Pages 200-203
Kazutaka Obata, Kensuke Kishishita, Atsushi Okemoto, Keita Taniya, Yuichi Ichihashi, Satoru Nishiyama
[PDF (695 K)](file:///I%3A%5C5%5C67.pdf)

68
In situ preparation of core-satellites nanostructural magnetic-Au NPs composite for catalytic degradation of organic contaminants
Chemical Engineering Journal, Volume 254, 15 October 2014, Pages 514-523
Jing Hu, Ya-lei Dong, Zia ur Rahman, Yan-hua Ma, Cui-ling Ren, Xing-guo Chen
[PDF (2533 K)](file:///I%3A%5C5%5C68.pdf)

69
Plasma-catalytic oxidation of acetone in annular porous monolithic ceramic-supported catalysts
Chemical Engineering Journal, Volume 251, 1 September 2014, Pages 199-206
Hung Quang Trinh, Young Sun Mok
[PDF (2226 K)](file:///I%3A%5C5%5C69.pdf)

70
Study on the decomposition of trace benzene over V2O5–WO3/TiO2-based catalysts in simulated flue gas
Applied Catalysis B: Environmental, Volume 147, 5 April 2014, Pages 322-329
Sheng-yong Lu, Qiu-lin Wang, William R. Stevens, Chun Wai Lee, Brian K. Gullett, Yong-xin Zhao
[PDF (1727 K)](file:///I%3A%5C5%5C70.pdf)

71
Experimental and thermodynamic comparison between a novel CO2/CH4 and an oxygen submerged DC thermal plasma for treatment of sebacic acid in basic aqueous solution
Journal of Environmental Chemical Engineering, Volume 2, Issue 4, December 2014, Pages 2136-2147
Sanaz Safa, Alireza Hekmat-Ardakan, Gervais Soucy
[PDF (4077 K)](file:///I%3A%5C5%5C71.pdf)
72

Synthesis and characterization of cerium oxide based nanofluids: An efficient coolant in heat transport applications
Chemical Engineering Journal, Volume 255, 1 November 2014, Pages 282-289
Thadathil S. Sreeremya, Asha Krishnan, A. Peer Mohamed, U.S. Hareesh, Swapankumar Ghosh
[PDF (2092 K)](file:///I%3A%5C5%5C72.pdf)
73

Identification of liquid-phase decomposition species and reactions for guanidinium azotetrazolate
Thermochimica Acta, Volume 590, 20 August 2014, Pages 51-65
Neeraj R. Kumbhakarna, Kaushal J. Shah, Arindrajit Chowdhury, Stefan T. Thynell
[PDF (1458 K)](file:///I%3A%5C5%5C73.pdf)

74
A kinetic study on the effects of alkaline earth and alkali metal compounds for catalytic pyrolysis of microalgae using thermogravimetry
Applied Thermal Engineering, Volume 73, Issue 1, 5 December 2014, Pages 355-359
Qing Xu, Xiaoqian Ma, Zhaosheng Yu, Zilin Cai
[PDF (652 K)](file:///I%3A%5C5%5C74.pdf)

75
Catalytic ozonation of benzotriazole over alumina supported transition metal oxide catalysts in water
Separation and Purification Technology, Volume 135, 15 October 2014, Pages 158-164
Babak Roshani, Iain McMaster, Ebrahim Rezaei, Jafar Soltan
[PDF (584 K)](file:///I%3A%5C5%5C75.pdf)
76

Effects of aeration rate on degradation process of oil palm empty fruit bunch with kinetic-dynamic modeling
Bioresource Technology, Volume 169, October 2014, Pages 428-438
Ahmad Tarmezee Talib, Mohd Noriznan Mokhtar, Azhari Samsu Baharuddin, Alawi Sulaiman
[PDF (1259 K)](file:///I%3A%5C5%5C76.pdf)

77
Anodic behavior of stainless-steel substrate in organic electrolyte solutions containing different lithium salts
Electrochimica Acta, Volume 140, 10 September 2014, Pages 125-131
Kazuki Furukawa, Nobuko Yoshimoto, Minato Egashira, Masayuki Morita
[PDF (2240 K)](file:///I%3A%5C5%5C77.pdf)
78

Smouldering combustion of peat in wildfires: Inverse modelling of the drying and the thermal and oxidative decomposition kinetics
Combustion and Flame, Volume 161, Issue 6, June 2014, Pages 1633-1644
Xinyan Huang, Guillermo Rein
[PDF (3726 K)](file:///I%3A%5C5%5C78.pdf)

79
Platinum loaded NaNbO3-xNx with nanostep surface nanostructures toward enhanced visible-light photocatalytic activity
Applied Catalysis B: Environmental, Volumes 156–157, September 2014, Pages 378-384
Haifeng Shi, Guoqing Chen, Zhigang Zou
[PDF (3258 K)](file:///I%3A%5C5%5C79.pdf)
80

Nano-scale texture and porosity of organic matter and clay minerals in organic-rich mudrocks
Fuel, Volume 135, 1 November 2014, Pages 359-373
Utpalendu Kuila, Douglas K. McCarty, Arkadiusz Derkowski, Timothy B. Fischer, Tomasz Topór, Manika Prasad
[PDF (2242 K)](file:///I%3A%5C5%5C80.pdf)
81

Experimental and computational study of the initial decomposition of gamma-valerolactone
Proceedings of the Combustion Institute, In Press, Corrected Proof, Available online 24 August 2014
Ruben De Bruycker, Hans-Heinrich Carstensen, John M. Simmie, Kevin M. Van Geem, Guy B. Marin
[PDF (1147 K)](file:///I%3A%5C5%5C81.pdf)

82
Thermal stability of lauroyl peroxide by isoconversional kinetics evaluation and finite element analysis
Journal of the Taiwan Institute of Chemical Engineers, Volume 45, Issue 2, March 2014, Pages 461-467
Na Zang, Xin-Ming Qian, Jia-Yu Liao, Chi-Min Shu
[PDF (1453 K)](file:///I%3A%5C5%5C82.pdf)

83
Influence of iron state and acidity of zeolites on the catalytic activity of FeHBEA, FeHZSM-5 and FeHMOR in SCR of NO with NH3 and N2O decomposition
Microporous and Mesoporous Materials, In Press, Accepted Manuscript, Available online 22 October 2014
Paweł Boroń, Lucjan Chmielarz, Jacek Gurgul, Kazimierz Łątka, Barbara Gil, Bartosz Marszałek, Stanislaw Dzwigaj
[PDF (2240 K)](file:///I%3A%5C5%5C83.pdf)

84
A novel Bi-based oxybromide Bi4NbO8Br: Synthesis, characterization and visible-light-active photocatalytic activity
Colloids and Surfaces A: Physicochemical and Engineering Aspects, Volume 462, 20 November 2014, Pages 131-136
Ying He, Yihe Zhang, Hongwei Huang, Na Tian, Yuxi Guo, Yi Luo
[PDF (1643 K)](file:///I%3A%5C5%5C84.pdf)

85
Spherical mesoporous TiO2 fabricated by sodium dodecyl sulfate-assisted hydrothermal treatment and its photocatalytic decomposition of papermaking wastewater
Powder Technology, Volume 256, April 2014, Pages 118-125
Bin Sun, Guowei Zhou, Changwang Shao, Bin Jiang, Jinli Pang, Yan Zhang
[PDF (2049 K)](file:///I%3A%5C5%5C85.pdf)
86

Fipronil decomposition in aqueous semiconductor suspensions using UV light and solar energy
Journal of the Taiwan Institute of Chemical Engineers, Volume 45, Issue 3, May 2014, Pages 981-988
José Fenoll, Pilar Hellín, Pilar Flores, Isabel Garrido, Simón Navarro
[PDF (711 K)](file:///I%3A%5C5%5C86.pdf)
87

Thermal degradation of biocidal organic N-halamines and N-halamine polymers
Thermochimica Acta, Volume 583, 10 May 2014, Pages 32-42
Marta Chylińska, Halina Kaczmarek
[PDF (2260 K)](file:///I%3A%5C5%5C87.pdf)

88
Photocatalytic reactions of 2,4-dichlorophenoxyacetic acid using a microwave-assisted photocatalysis system
Chemical Engineering Journal, In Press, Corrected Proof, Available online 13 October 2014
Heon Lee, Sung Hoon Park, Young-Kwon Park, Sun-Jae Kim, Seong-Gyu Seo, Seo Jin Ki, Sang-Chul Jung
[PDF (791 K)](file:///I%3A%5C5%5C88.pdf)
89

Formation of trichloronitromethane and dichloroacetonitrile in natural waters: Precursor characterization, kinetics and interpretation
Journal of Hazardous Materials, Volume 283, January 2015, Pages 218-226
Yi-Hsueh Chuang, Hsin-hsin Tung
[PDF (1717 K)](file:///I%3A%5C5%5C89.pdf)

90
On using film boiling to thermally decompose liquid organic chemicals: Application to ethyl acetate as a model compound
International Journal of Heat and Mass Transfer, Volume 68, January 2014, Pages 456-465
Wei-Chih Kuo, C. Thomas Avedisian, Kyung Hwa Choi, Wing Tsang
[PDF (2041 K)](file:///I%3A%5C5%5C.pdf)

91
Characterization of biocoals and dissolved organic matter phases obtained upon hydrothermal carbonization of brewer’s spent grain
Bioresource Technology, Volume 164, July 2014, Pages 162-169
J. Poerschmann, B. Weiner, H. Wedwitschka, I. Baskyr, R. Koehler, F.-D. Kopinke
[PDF (436 K)](file:///I%3A%5C5%5C91.pdf)
92

Removal of naphthenic acids from crude oils by catalytic decomposition using Mg–Al hydrotalcite/γ-Al2O3 as a catalyst
Fuel, Volume 134, 15 October 2014, Pages 499-504
Yan-zhen Wang, Du-le Zhong, Hong-ling Duan, Chun-min Song, Xiao-tong Han, Xiang-rong Ma
[PDF (772 K)](file:///I%3A%5C5%5C92.pdf)
93

Preparation of nanostructure CuO/ZnO mixed oxide by sol–gel thermal decomposition of a CuCO3 and ZnCO3: TG, DTG, XRD, FESEM and DRS investigations
Journal of Industrial and Engineering Chemistry, Volume 20, Issue 3, 25 May 2014, Pages 925-929
Mohammad Hossein Habibi, Bahareh Karimi
[PDF (1627 K)](file:///I%3A%5C5%5C93.pdf)

94
The influence of the preparation procedures on the catalytic activity of Fe-BEA zeolites in SCR of NO with ammonia and N2O decomposition
Catalysis Today, Volume 235, 15 October 2014, Pages 210-225
Paweł Boroń, Lucjan Chmielarz, Jacek Gurgul, Kazimierz Łątka, Barbara Gil, Jean-Marc Krafft, Stanislaw Dzwigaj
[PDF (1590 K)](file:///I%3A%5C5%5C94.pdf)
95

Enhanced stability of membrane reactor for thermal decomposition of CO2 via porous-dense-porous triple-layer composite membrane
Journal of Membrane Science, Volume 471, 1 December 2014, Pages 9-15
Kai Zhang, Guangru Zhang, Zhengkun Liu, Jiawei Zhu, Na Zhu, Wanqin Jin
[PDF (2333 K)](file:///I%3A%5C5%5C95.pdf)

96
Effect of mesoporous silica topology on the formation of active sites in copper supported catalysts for methanol decomposition
Applied Catalysis B: Environmental, Volume 147, 5 April 2014, Pages 684-697
Tanya Tsoncheva, Izabela Genova, Mariana Stoyanova, Marga-Martina Pohl, Radostin Nickolov, Momtchil Dimitrov, Eva Sarcadi-Priboczki, Mihail Mihaylov, Daniela Kovacheva, Konstantin Hadjiivanov
[PDF (2413 K)](file:///I%3A%5C5%5C96.pdf)

97
Characterization, non-isothermal decomposition kinetics and photocatalytic water splitting of green chemically synthesized polyoxoanions of molybdenum containing phosphorus as hetero atom
Thermochimica Acta, Volume 596, 20 November 2014, Pages 29-36
Bessy D’Cruz, Jadu Samuel, Leena George
[PDF (910 K)](file:///I%3A%5C5%5C97.pdf)

98
Thermal decomposition of ammonium perchlorate in the presence of Al(OH)3·Cr(OH)3 nanoparticles
Journal of Hazardous Materials, Volume 268, 15 March 2014, Pages 273-280
WenJing Zhang, Ping Li, HongBin Xu, Randi Sun, Penghui Qing, Yi Zhang
[PDF (1891 K)](file:///I%3A%5C5%5C98.pdf)

99
Effect of carboxymethyl cellulose on the drying dynamics and thermal cracking performance of iron ore green pellets
Powder Technology, Volume 267, November 2014, Pages 11-17
Xiao-hui Fan, Gui-ming Yang, Xu-ling Chen, Xiang-ning He, Xiao-xian Huang, Lu Gao
[PDF (1624 K)](file:///I%3A%5C5%5C99.pdf)
100

Catalytic efficiency of iron oxides in decomposition of H2O2 for simultaneous NOX and SO2 removal: Effect of calcination temperature
Journal of Molecular Catalysis A: Chemical, Volume 393, 1 November 2014, Pages 222-231
Jie Ding, Qin Zhong, Shule Zhang
[PDF (8029 K)](file:///I%3A%5C5%5C100.pdf)