

Bogdan Z Dlugogorski

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277
papers

5,654
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285
ext. papers

6,397
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
277	Coal oxidation at low temperatures: oxygen consumption, oxidation products, reaction mechanism and kinetic modelling. <i>Progress in Energy and Combustion Science</i> , 2003 , 29, 487-513	33.6	466
276	Mechanisms for formation, chlorination, dechlorination and destruction of polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/Fs). <i>Progress in Energy and Combustion Science</i> , 2009 , 35, 245-274	33.6	338
275	Analysis of the mechanism of the low-temperature oxidation of coal. <i>Combustion and Flame</i> , 2003 , 134, 107-117	5.3	131
274	Thermal decomposition of brominated flame retardants (BFRs): Products and mechanisms. <i>Progress in Energy and Combustion Science</i> , 2019 , 70, 212-259	33.6	97
273	Ab initio procedure for aqueous-phase pKa calculation: the acidity of nitrous acid. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 11371-6	2.8	88
272	Pathways for Production of CO ₂ and CO in Low-Temperature Oxidation of Coal. <i>Energy & Fuels</i> , 2003 , 17, 150-158	4.1	88
271	Formation of dioxins and furans during combustion of treated wood. <i>Progress in Energy and Combustion Science</i> , 2007 , 33, 384-408	33.6	83
270	Thermal decomposition of solid oxygenated complexes formed by coal oxidation at low temperatures. <i>Fuel</i> , 2002 , 81, 1913-1923	7.1	79
269	Kinetic modeling of low-temperature oxidation of coal. <i>Combustion and Flame</i> , 2002 , 131, 452-464	5.3	72
268	Theoretical analysis of reaction regimes in low-temperature oxidation of coal. <i>Fuel</i> , 1999 , 78, 1073-1081	7.1	70
267	A mechanistic and kinetic study on the formation of PBDD/Fs from PBDEs. <i>Environmental Science & Technology</i> , 2013 , 47, 5118-27	10.3	66
266	Dehydroxylation of serpentine minerals: Implications for mineral carbonation. <i>Renewable and Sustainable Energy Reviews</i> , 2014 , 31, 353-367	16.2	66
265	Quantum chemical investigation of formation of polychlorodibenzo-p-dioxins and dibenzofurans from oxidation and pyrolysis of 2-chlorophenol. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 2563-73	2.8	66
264	Performance of a Co-Ni catalyst for propane reforming under low steam-to-carbon ratios. <i>Chemical Engineering Journal</i> , 2004 , 102, 119-130	14.7	64
263	Experimental investigation of alumina and quartz as dielectrics for a cylindrical double dielectric barrier discharge reactor in argon diluted methane plasma. <i>Chemical Engineering Journal</i> , 2012 , 180, 178-189	14.7	55
262	Examination of CO ₂ , CO, and H ₂ O Formation during Low-Temperature Oxidation of a Bituminous Coal. <i>Energy & Fuels</i> , 2002 , 16, 586-592	4.1	55
261	Sequestration of atmospheric CO ₂ in chrysotile mine tailings of the Woodsreef Asbestos Mine, Australia: Quantitative mineralogy, isotopic fingerprinting and carbonation rates. <i>Chemical Geology</i> , 2013 , 358, 156-169	4.2	53

260	Low temperature oxidation of linseed oil: a review. <i>Fire Science Reviews</i> , 2012 , 1, 3		52
259	Formation and chlorination of carbazole, phenoxazine, and phenazine. <i>Environmental Science & Technology</i> , 2015 , 49, 2215-21	10.3	50
258	Experimental Study on Low-Temperature Oxidation of an Australian Coal. <i>Energy & Fuels</i> , 1999 , 13, 1173-1179	4.1	50
257	Mechanism of thermal decomposition of tetrabromobisphenol A (TBBA). <i>Journal of Physical Chemistry A</i> , 2014 , 118, 9338-46	2.8	47
256	Decomposition of selected chlorinated volatile organic compounds by ceria (CeO ₂). <i>Catalysis Science and Technology</i> , 2017 , 7, 3902-3919	5.5	47
255	Thermal decomposition of 1,2-bis(2,4,6-tribromophenoxy)ethane (BTBPE), a novel brominated flame retardant. <i>Environmental Science & Technology</i> , 2014 , 48, 14335-43	10.3	43
254	Role of inherent water in low-temperature oxidation of coal. <i>Combustion Science and Technology</i> , 2003 , 175, 253-270	1.5	43
253	Theoretical study of unimolecular decomposition of catechol. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 1060-7	2.8	41
252	Reaction of phenol with singlet oxygen. <i>Physical Chemistry Chemical Physics</i> , 2018 , 21, 171-183	3.6	40
251	Effects of Wind Flow on Self-Heating Characteristics of Coal Stockpiles. <i>Chemical Engineering Research and Design</i> , 2000 , 78, 445-453	5.5	39
250	Carbon deposition and gasification kinetics of used lanthanide-promoted Co-Ni/Al ₂ O ₃ catalysts from CH ₄ dry reforming. <i>Catalysis Communications</i> , 2012 , 26, 183-188	3.2	38
249	Thermal activation of antigorite for mineralization of CO ₂ . <i>Environmental Science & Technology</i> , 2013 , 47, 182-90	10.3	38
248	Rate constants for hydrogen abstraction reactions by the hydroperoxyl radical from methanol, ethenol, acetaldehyde, toluene, and phenol. <i>Journal of Computational Chemistry</i> , 2011 , 32, 1725-33	3.5	37
247	Formation of Environmentally Persistent Free Radicals on γ -Al ₂ O ₃ . <i>Environmental Science & Technology</i> , 2016 , 50, 11094-11102	10.3	37
246	Accurate rate constants for decomposition of aqueous nitrous acid. <i>Inorganic Chemistry</i> , 2012 , 51, 2178-85	3.5	36
245	Theoretical study of the ammonia-hypochlorous acid reaction mechanism. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 2597-606	2.8	35
244	Experimental and chemical kinetic study of the pyrolysis of trifluoroethane and the reaction of trifluoromethane with methane. <i>Journal of Fluorine Chemistry</i> , 2010 , 131, 751-760	2.1	35
243	Dehydrohalogenation of ethyl halides. <i>Tetrahedron Letters</i> , 2014 , 55, 4860-4868	2	34

242	Energy cost of heat activating serpentinites for CO ₂ storage by mineralisation. <i>International Journal of Greenhouse Gas Control</i> , 2013 , 17, 225-239	4.2	34
241	Thermal Recycling of Brominated Flame Retardants with Fe ₂ O ₃ . <i>Journal of Physical Chemistry A</i> , 2016 , 120, 6039-47	2.8	33
240	Formation of PCDD/Fs in Oxidation of 2-Chlorophenol on Neat Silica Surface. <i>Environmental Science & Technology</i> , 2016 , 50, 1412-8	10.3	33
239	Selection of acid for weak acid processing of wollastonite for mineralisation of CO ₂ . <i>Fuel</i> , 2014 , 122, 277-286	7.1	33
238	Thermochemical properties and decomposition pathways of three isomeric semiquinone radicals. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 1098-108	2.8	33
237	Quantum chemical and kinetic study of formation of 2-chlorophenoxy radical from 2-chlorophenol: unimolecular decomposition and bimolecular reactions with H, OH, Cl, and O ₂ . <i>Journal of Physical Chemistry A</i> , 2008 , 112, 3680-92	2.8	33
236	Formation of dibenzofuran, dibenzo-p-dioxin and their hydroxylated derivatives from catechol. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 1822-30	3.6	32
235	Catalytic effect of CuO and other transition metal oxides in formation of dioxins: theoretical investigation of reaction between 2,4,5-trichlorophenol and CuO. <i>Environmental Science & Technology</i> , 2007 , 41, 5708-15	10.3	32
234	Electronic, optical and bonding properties of MgCO ₃ . <i>Solid State Communications</i> , 2010 , 150, 848-851	1.6	31
233	Formation of polybrominated dibenzofurans from polybrominated biphenyls. <i>Chemosphere</i> , 2015 , 119, 1048-1053	8.4	30
232	Sealability Properties of Fluorine-Free Fire-Fighting Foams (FfreeF). <i>Fire Technology</i> , 2008 , 44, 297-309	3	30
231	Chemical bonding states and solar selective characteristics of unbalanced magnetron sputtered Ti _x M _{1-x} Ny films. <i>RSC Advances</i> , 2016 , 6, 36373-36383	3.7	30
230	The stability of Co ₃ O ₄ , Fe ₂ O ₃ , Au/Co ₃ O ₄ and Au/Fe ₂ O ₃ catalysts in the catalytic combustion of lean methane mixtures in the presence of water. <i>Catalysis Today</i> , 2015 , 258, 276-283	5.3	29
229	Reaction of Aniline with Singlet Oxygen (O ¹) <i>Journal of Physical Chemistry A</i> , 2017 , 121, 3199-3206	2.8	28
228	Emission of polyaromatic hydrocarbons, polychlorinated biphenyls and polychlorinated dibenzo-p-dioxins and furans from fires of wood chips. <i>Fire Safety Journal</i> , 2002 , 37, 659-672	3.3	28
227	Effect of added nucleophilic species on the rate of primary amino acid nitrosation. <i>Journal of the American Chemical Society</i> , 2005 , 127, 3664-5	16.4	27
226	Thermal conductivity detection relative molar response factors for halogenated compounds. <i>Journal of Chromatography A</i> , 1999 , 841, 187-195	4.5	27
225	An experimental and kinetic modeling study of the reaction of CHF ₃ with methane. <i>Environmental Science & Technology</i> , 2006 , 40, 5778-85	10.3	26

224	Quantum chemical study of low temperature oxidation mechanism of dibenzofuran. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 13560-7	2.8	26
223	Zeolite-supported iron catalysts for allyl alcohol synthesis from glycerol. <i>Applied Catalysis A: General</i> , 2016 , 509, 130-142	5.1	25
222	Understanding the shrinkage of optical absorption edges of nanostructured Cd-Zn sulphide films for photothermal applications. <i>Applied Surface Science</i> , 2017 , 392, 854-862	6.7	25
221	Identification and Quantitation of Volatile Organic Compounds from Oxidation of Linseed Oil. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 5645-5652	3.9	25
220	A first-principles density functional study of chlorophenol adsorption on Cu ₂ O(110):CuO. <i>Journal of Chemical Physics</i> , 2009 , 130, 184505	3.9	25
219	Pyrolysis of permethrin and formation of precursors of polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/F) under non-oxidative conditions. <i>Chemosphere</i> , 2009 , 74, 1435-43	8.4	25
218	Bimetallic CoNi/Al ₂ O ₃ catalyst for propane dry reforming: Estimation of reaction metrics from longevity runs. <i>Chemical Engineering Science</i> , 2010 , 65, 66-73	4.4	25
217	Computational study of the oxidation and decomposition of dibenzofuran under atmospheric conditions. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 6960-7	2.8	25
216	Biocompatibility study of multi-layered hydroxyapatite coatings synthesized on Ti-6Al-4V alloys by RF magnetron sputtering for prosthetic-orthopaedic implant applications. <i>Applied Surface Science</i> , 2019 , 463, 292-299	6.7	24
215	Atmospheric emission of NO _x from mining explosives: A critical review. <i>Atmospheric Environment</i> , 2017 , 167, 81-96	5.3	24
214	First-principles study of the electronic, optical and bonding properties in dolomite. <i>Computational Materials Science</i> , 2011 , 50, 1037-1042	3.2	24
213	Small-Scale Test Protocol for Firefighting Foams DEF(AUST)5706: Effect of Bubble Size Distribution and Expansion Ratio. <i>Fire Technology</i> , 2011 , 47, 149-162	3	24
212	Chlorination of the Cu(110) Surface and Copper Nanoparticles: A Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 13412-13419	3.8	24
211	Theoretical study of reaction pathways of dibenzofuran and dibenzo-p-dioxin under reducing conditions. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 7133-40	2.8	24
210	Adsorption of chlorophenol on the Cu(111) surface: A first-principles density functional theory study. <i>Applied Surface Science</i> , 2008 , 254, 4218-4224	6.7	24
209	A review of CFC and halon treatment technologies □The nature and role of catalysts. <i>Catalysis Surveys From Asia</i> , 2006 , 10, 40-54	2.8	23
208	Mechanisms governing selective hydrogenation of acetylene over EMo ₂ N surfaces. <i>Catalysis Science and Technology</i> , 2017 , 7, 943-960	5.5	22
207	IAFSS agenda 2030 for a fire safe world. <i>Fire Safety Journal</i> , 2019 , 110, 102889	3.3	22

206	New Mechanistic Insights: Why Do Plants Produce Isoprene?. <i>ACS Omega</i> , 2016 , 1, 220-225	3.9	22
205	Rate constants for reactions of ethylbenzene with hydroperoxyl radical. <i>Combustion and Flame</i> , 2013 , 160, 9-16	5.3	22
204	An equilibrium ab initio atomistic thermodynamics study of chlorine adsorption on the Cu(001) surface. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 10306-11	3.6	22
203	On the Chemistry of Iron Oxide Supported on γ -Alumina and Silica Catalysts. <i>ACS Omega</i> , 2018 , 3, 5362-5374	3.4	22
202	Conversion of CHF ₃ to CH ₂ =CF ₂ via reaction with CH ₄ and CaBr ₂ . <i>Environmental Science & Technology</i> , 2008 , 42, 5795-9	10.3	21
201	Factors affecting the stability of foamed concentrated emulsions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1999 , 150, 171-184	5.1	21
200	Gas-Phase Reaction of Halon 1301 (CBrF ₃) with Methane. <i>Industrial & Engineering Chemistry Research</i> , 1999 , 38, 3345-3352	3.9	21
199	Hydrodesulfurization of Thiophene over γ -Mo ₂ N catalyst. <i>Molecular Catalysis</i> , 2018 , 459, 21-30	3.3	21
198	Catalytic combustion of ventilation air methane (VAM) long term catalyst stability in the presence of water vapour and mine dust. <i>Catalysis Science and Technology</i> , 2014 , 4, 1793-1802	5.5	20
197	Determination of toxic products released in combustion of pesticides. <i>Progress in Energy and Combustion Science</i> , 2012 , 38, 400-418	33.6	20
196	Fischer-Tropsch synthesis: Effect of promoter type on alumina-supported Mo carbide catalysts. <i>Catalysis Today</i> , 2011 , 175, 450-459	5.3	20
195	Formation of polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/F) in oxidation of captan pesticide. <i>Proceedings of the Combustion Institute</i> , 2011 , 33, 701-708	5.9	20
194	Catalytic conversion of glycerol to allyl alcohol; effect of a sacrificial reductant on the product yield. <i>Catalysis Science and Technology</i> , 2014 , 4, 3090-3098	5.5	19
193	An experimental and theoretical study of the nitrosation of ammonia and thiourea. <i>Chemical Engineering Science</i> , 2006 , 61, 3186-3197	4.4	19
192	Reactions of products from thermal degradation of PVC with nanoclusters of α -Fe ₂ O ₃ (hematite). <i>Chemical Engineering Journal</i> , 2017 , 323, 396-405	14.7	18
191	Structural Thermal Stability of Graphene Oxide-Doped Copper-Cobalt Oxide Coatings as a Solar Selective Surface. <i>Journal of Materials Science and Technology</i> , 2016 , 32, 1179-1191	9.1	18
190	Photodecomposition of bromophenols. <i>Chemosphere</i> , 2016 , 150, 749-758	8.4	18
189	Quantum chemical study on formation of PCDT/TA from 2-chlorothiophenol precursor. <i>Environmental Science & Technology</i> , 2013 , 47, 11040-7	10.3	18

188	Conversion of Fluorine-Containing Ozone-Depleting and Greenhouse Gases to Valuable Polymers in a Nonthermal Plasma. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 11279-11283	3.9	18
187	Optimization of antigorite heat pre-treatment via kinetic modeling of the dehydroxylation reaction for CO ₂ mineralization 2011 , 1, 294-304		18
186	Conversion of CHF ₃ to CH ₂ CF ₂ via reaction with CH ₄ in the presence of CBrF ₃ : An experimental and kinetic modelling study. <i>Journal of Hazardous Materials</i> , 2010 , 180, 181-7	12.8	18
185	Experimental and computational studies of the pyrolysis of CBrF ₃ , and the reaction of CBrF ₃ with CH ₄ . <i>Chemical Engineering Science</i> , 2000 , 55, 4067-4078	4.4	18
184	Gas-Phase Reaction of Halon 1211 (CBrClF ₂) with Methane. <i>Industrial & Engineering Chemistry Research</i> , 2001 , 40, 3139-3143	3.9	18
183	Investigation of the post-annealing electromagnetic response of Cu ₂ O oxide coatings via optical measurement and computational modelling. <i>RSC Advances</i> , 2017 , 7, 16826-16835	3.7	17
182	Oxidation of crystalline polyethylene. <i>Combustion and Flame</i> , 2015 , 162, 3681-3690	5.3	17
181	Inhibition and Promotion of Pyrolysis by Hydrogen Sulfide (HS) and Sulfanyl Radical (SH). <i>Journal of Physical Chemistry A</i> , 2016 , 120, 8941-8948	2.8	17
180	Mechanisms of transformation of polychlorinated diphenyl ethers into polychlorinated dibenzo-p-dioxins and dibenzofurans. <i>Chemosphere</i> , 2014 , 114, 129-35	8.4	17
179	Formation of weathering-derived magnesite deposits in the New England Orogen, New South Wales, Australia: Implications from mineralogy, geochemistry and genesis of the Attunga magnesite deposit. <i>Mineralium Deposita</i> , 2013 , 48, 525-541	4.8	17
178	Mechanistic study of the reaction of CHF ₃ with CH ₄ . <i>Chemical Engineering Journal</i> , 2011 , 166, 822-831	14.7	17
177	Interaction of Chlorine and Oxygen with the Cu(100) Surface. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 19048-19054	3.8	17
176	Formation of polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans (PCDD/F) in fires of arsenic-free treated wood: role of organic preservatives. <i>Environmental Science & Technology</i> , 2007 , 41, 6425-32	10.3	17
175	Hydrogen Abstraction from Hydrocarbons by NH. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 2221-2231	2.8	16
174	Formation of PCDDs and PCDFs in the torrefaction of biomass with different chemical composition. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017 , 123, 126-133	6	16
173	Decomposition of ethylamine through bimolecular reactions. <i>Combustion and Flame</i> , 2016 , 163, 532-539	5.3	16
172	Study of thermally conditioned and weak acid-treated serpentinites for mineralisation of carbon dioxide. <i>Minerals Engineering</i> , 2014 , 59, 17-30	4.9	16
171	Influence of impurities on the epoxidation of allyl alcohol to glycidol with hydrogen peroxide over titanium silicate TS-1. <i>Applied Catalysis A: General</i> , 2015 , 489, 241-246	5.1	16

- 170 Partial oxidation of methane with nitrous oxide forms synthesis gas over cobalt exchanged ZSM-5. *Catalysis Communications*, **2014**, 53, 42-46 3.2 16
- 169 Mechanism of Formation of Volatile Organic Compounds from Oxidation of Linseed Oil. *Industrial & Engineering Chemistry Research*, **2012**, 51, 5653-5661 3.9 16
- 168 Theoretical study of reactions of HO₂ in low-temperature oxidation of benzene. *Combustion and Flame*, **2010**, 157, 1325-1330 5.3 16
- 167 Experimental and Kinetic Studies of Gas-phase Pyrolysis of n-C₄F₁₀. *Industrial & Engineering Chemistry Research*, **2008**, 47, 2579-2584 3.9 16
- 166 Elementary reaction step model of the N-nitrosation of ammonia. *International Journal of Chemical Kinetics*, **2007**, 39, 645-656 1.4 16
- 165 Assessing influence of experimental parameters on formation of PCDD/F from ash derived from fires of CCA-treated wood. *Environmental Science & Technology*, **2003**, 37, 4148-56 10.3 16
- 164 Experimental and Computational Studies on the Gas-Phase Reaction of CBrF₃ with Hydrogen. *Environmental Science & Technology*, **2000**, 34, 584-590 10.3 16
- 163 Uniformity Of Radiant Heat Fluxes In Cone Calorimeter. *Fire Safety Science*, **2003**, 7, 815-826 16
- 162 Recycling of zincite (ZnO) via uptake of hydrogen halides. *Physical Chemistry Chemical Physics*, **2018**, 20, 1221-1230 3.6 16
- 161 Propagation of Laminar Flames in Wet Premixed Natural Gas-Air Mixtures. *Chemical Engineering Research and Design*, **1998**, 76, 81-89 5.5 15
- 160 Gas-phase reaction of CCl₂F₂ (CFC-12) with methane. *Chemosphere*, **2003**, 53, 1189-91 8.4 15
- 159 Oxygen consumption by a bituminous coal: Time dependence of the rate of oxygen consumption. *Combustion Science and Technology*, **2002**, 174, 165-185 1.5 15
- 158 Viscometric functions for FENE and generalized Lennard-Jones dumbbell liquids in Couette flow: molecular dynamics study. *Journal of Non-Newtonian Fluid Mechanics*, **1993**, 48, 303-335 2.7 15
- 157 Towards understanding the improved stability of palladium supported on TS-1 for catalytic combustion. *Physical Chemistry Chemical Physics*, **2016**, 18, 10528-37 3.6 15
- 156 Experimental and predicted mechanical properties of Cr_{1-x}Al_xN thin films, at high temperatures, incorporating in situ synchrotron radiation X-ray diffraction and computational modelling. *RSC Advances*, **2017**, 7, 22094-22104 3.7 14
- 155 Atmospheric oxidation of carbon disulfide (CS₂). *Chemical Physics Letters*, **2017**, 669, 43-48 2.5 14
- 154 Thermal Reduction of NO with Recycled Plastics. *Environmental Science & Technology*, **2017**, 51, 7714-7722 14
- 153 A Melamine-Modified Zeolite with Enhanced CO₂ Capture Properties. *Energy Technology*, **2013**, 1, 345-349 14

152	Thermal decomposition of captan and formation pathways of toxic air pollutants. <i>Environmental Science & Technology</i> , 2010 , 44, 4149-54	10.3	14
151	Catalytic pyrolysis of CHF ₃ over activated carbon and activated carbon supported potassium catalyst. <i>Journal of Fluorine Chemistry</i> , 2010 , 131, 698-703	2.1	14
150	Nucleophilic reactivity of aniline derivatives towards the nitroso group. <i>Journal of Physical Organic Chemistry</i> , 2007 , 20, 167-179	2.1	14
149	Experimental and Quantum Chemical Study of the Reaction CF ₂ + CH ₃ -rCF ₂ CH ₃ -rCH ₂ CF ₂ + H: A Key Mechanism in the Reaction between Methane and Fluorocarbons. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 3758-3762	3.9	14
148	Nucleophilic Catalysis of Nitrosation: Relationship between Nitrosating Agent Equilibrium Constant and Catalyst Nucleophilicity. <i>Journal of Chemical Research</i> , 2002 , 2002, 589-590	0.6	14
147	Conversion of NO into N ₂ over Mo ₂ N. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 22270-22280	3.8	14
146	Oxidation of Polyethylene under Corrosive NO _x Atmosphere. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 3766-3775	3.8	13
145	Predicting high temperature mechanical properties of CrN and CrAlN coatings from in-situ synchrotron radiation X-ray diffraction. <i>Thin Solid Films</i> , 2016 , 599, 98-103	2.2	13
144	The structures and thermodynamic stability of copper(II) chloride surfaces. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 24209-15	3.6	13
143	Low-temperature oxidation of coal at elevated pressures. <i>Journal of Loss Prevention in the Process Industries</i> , 1998 , 11, 373-381	3.5	13
142	Water-in-oil emulsion foaming by thiourea nitrosation: Reaction and mass transfer. <i>AIChE Journal</i> , 2006 , 52, 1558-1565	3.6	13
141	Large-eddy simulation of methanol pool fires using an accelerated stochastic fields method. <i>Combustion and Flame</i> , 2016 , 173, 89-98	5.3	13
140	Combustion chemistry of carbon disulphide (CS ₂). <i>Combustion and Flame</i> , 2019 , 210, 413-425	5.3	13
139	NEXAFS N K -edge study of the bonding structure on Al/Si doped sputtered CrN coatings. <i>Journal of Alloys and Compounds</i> , 2016 , 661, 268-273	5.7	12
138	Influence of DC magnetron sputtering reaction gas on structural and optical characteristics of Ce-oxide thin films. <i>Ceramics International</i> , 2018 , 44, 16450-16458	5.1	12
137	Phase transformation mechanism of spodumene during its calcination. <i>Minerals Engineering</i> , 2019 , 140, 105883	4.9	12
136	Structures, electronic properties and stability phase diagrams for copper(I/II) bromide surfaces. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 9341-51	3.6	12
135	Thermochemical Parameters and pK _a Values for Chlorinated Congeners of Thiophenol. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 1834-1842	2.8	12

134	Effects of the structural properties of solid fuels on their re-ignition characteristics. <i>Fire and Materials</i> , 1998 , 22, 155-165	1.8	12
133	Gas-Phase and Pd-Catalyzed Hydrodehalogenation of CBrClF ₂ , CCl ₂ F ₂ , CHClF ₂ , and CH ₂ F ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 3442-3452	3.9	12
132	Conversion of halon 1211 (CBrClF ₂) over supported Pd catalysts. <i>Catalysis Today</i> , 2004 , 97, 205-215	5.3	12
131	Zeolite catalysts for Halon conversion. <i>Journal of Molecular Catalysis A</i> , 2002 , 181, 63-72		12
130	Catalytic hydrodehalogenation of halon 1211 (CBrClF ₂) over carbon-supported palladium catalysts. <i>Applied Catalysis B: Environmental</i> , 2003 , 44, 253-261	21.8	12
129	Experimental and computational studies of the thermal decomposition of halon 1211. <i>International Journal of Chemical Kinetics</i> , 2005 , 37, 134-146	1.4	12
128	Analytical Procedure for Proximate Analysis of Algal Biomass: Case Study for <i>Spirulina platensis</i> and <i>Chlorella vulgaris</i> . <i>Energy & Fuels</i> , 2020 , 34, 474-482	4.1	12
127	Leaching of lepidolite and recovery of lithium hydroxide from purified alkaline pressure leach liquor by phosphate precipitation and lime addition. <i>Hydrometallurgy</i> , 2021 , 201, 105538	4	12
126	Structural and optical characteristics of pre- and post-annealed sol-gel derived CoCu-oxide coatings. <i>Journal of Alloys and Compounds</i> , 2017 , 701, 222-235	5.7	11
125	Formation of chlorobenzenes by oxidative thermal decomposition of 1,3-dichloropropene. <i>Combustion and Flame</i> , 2015 , 162, 2414-2421	5.3	11
124	Effect of Fe ₂ O ₃ nanoparticles on combustion of coal surrogate (Anisole): Enhanced ignition and formation of persistent free radicals. <i>Proceedings of the Combustion Institute</i> , 2019 , 37, 3091-3099	5.9	11
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122	Quantum chemical study of copper (II) chloride and the Deacon reaction. <i>Chemical Physics Letters</i> , 2011 , 501, 215-220	2.5	11
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