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List of Publications by Year in descending order

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128
papers

4,967
citations

101543

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203
all docs

203
docs citations

203
times ranked

4457
citing authors

#	ARTICLE	IF	CITATIONS
1	Heterogeneous kinetics of the OH-initiated degradation of fenthion and parathion. <i>Journal of Environmental Sciences</i> , 2023, 133, 161-170.	6.1	1
2	Application of smog chambers in atmospheric process studies. <i>National Science Review</i> , 2022, 9, nwab103.	9.5	21
3	The impact of ammonium on the distillation of organic carbon in PM _{2.5} . <i>Science of the Total Environment</i> , 2022, 803, 150012.	8.0	2
4	Molecular Composition of Oxygenated Organic Molecules and Their Contributions to Organic Aerosol in Beijing. <i>Environmental Science & Technology</i> , 2022, 56, 770-778.	10.0	16
5	Evolution of organic carbon during COVID-19 lockdown period: Possible contribution of nocturnal chemistry. <i>Science of the Total Environment</i> , 2022, 808, 152191.	8.0	21
6	Influence of organic aerosol molecular composition on particle absorptive properties in autumn Beijing. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 1251-1269.	4.9	8
7	A New Type of Quartz Smog Chamber: Design and Characterization. <i>Environmental Science & Technology</i> , 2022, 56, 2181-2190.	10.0	7
8	Highly oxidized organic aerosols in Beijing: Possible contribution of aqueous-phase chemistry. <i>Atmospheric Environment</i> , 2022, 273, 118971.	4.1	3
9	N-nitration of secondary aliphatic amines in the particle phase. <i>Chemosphere</i> , 2022, 293, 133639.	8.2	6
10	Retrieval of Multiple Atmospheric Environmental Parameters From Images With Deep Learning. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2022, 19, 1-5.	3.1	2
11	Long-term winter observation of nitrous acid in the urban area of Beijing. <i>Journal of Environmental Sciences</i> , 2022, 114, 334-342.	6.1	5
12	Amplified role of potential HONO sources in O ₃ formation in North China Plain during autumn haze aggravating processes. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 3275-3302.	4.9	23
13	Ozone formation sensitivity study using machine learning coupled with the reactivity of volatile organic compound species. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 1511-1520.	3.1	13
14	Nontarget Screening Exhibits a Seasonal Cycle of PM _{2.5} Organic Aerosol Composition in Beijing. <i>Environmental Science & Technology</i> , 2022, 56, 7017-7028.	10.0	8
15	Secondary organic aerosol formed by condensing anthropogenic vapours over China's megacities. <i>Nature Geoscience</i> , 2022, 15, 255-261.	12.9	64
16	Influence of Aerosol Chemical Composition on Condensation Sink Efficiency and New Particle Formation in Beijing. <i>Environmental Science and Technology Letters</i> , 2022, 9, 375-382.	8.7	6
17	Influence of photochemical loss of volatile organic compounds on understanding ozone formation mechanism. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 4841-4851.	4.9	26
18	Ageing Significantly Alters the Physicochemical Properties and Associated Cytotoxicity Profiles of Ultrafine Particulate Matters towards Macrophages. <i>Antioxidants</i> , 2022, 11, 754.	5.1	3

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19	Insufficient Condensable Organic Vapors Lead to Slow Growth of New Particles in an Urban Environment. <i>Environmental Science & Technology</i> , 2022, 56, 9936-9946.	10.0	19
20	A large-scale outdoor atmospheric simulation smog chamber for studying atmospheric photochemical processes: Characterization and preliminary application. <i>Journal of Environmental Sciences</i> , 2021, 102, 185-197.	6.1	15
21	Is reducing new particle formation a plausible solution to mitigate particulate air pollution in Beijing and other Chinese megacities?. <i>Faraday Discussions</i> , 2021, 226, 334-347.	3.2	74
22	A 3D study on the amplification of regional haze and particle growth by local emissions. <i>Npj Climate and Atmospheric Science</i> , 2021, 4, .	6.8	23
23	Particle growth with photochemical age from new particle formation to haze in the winter of Beijing, China. <i>Science of the Total Environment</i> , 2021, 753, 142207.	8.0	21
24	Measurement report: Effects of photochemical aging on the formation and evolution of summertime secondary aerosol in Beijing. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 1341-1356.	4.9	18
25	Sulfuric acidâ€“amine nucleation in urban Beijing. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 2457-2468.	4.9	70
26	Intelligent and Scalable Air Quality Monitoring With 5G Edge. <i>IEEE Internet Computing</i> , 2021, 25, 35-44.	3.3	17
27	The Synergistic Role of Sulfuric Acid, Bases, and Oxidized Organics Governing Newâ€“Particle Formation in Beijing. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091944.	4.0	53
28	Identification, Quantification, and Imaging of the Biodistribution of Soot Particles by Mass Spectral Fingerprinting. <i>Analytical Chemistry</i> , 2021, 93, 6665-6672.	6.5	14
29	Formation of nighttime sulfuric acid from the ozonolysis of alkenes in Beijing. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 5499-5511.	4.9	17
30	Enhanced secondary organic aerosol formation from the photo-oxidation of mixed anthropogenic volatile organic compounds. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 7773-7789.	4.9	12
31	An indicator for sulfuric acidâ€“amine nucleation in atmospheric environments. <i>Aerosol Science and Technology</i> , 2021, 55, 1059-1069.	3.1	19
32	Chemistry of new particle formation and growth events during wintertime in suburban area of Beijing: Insights from highly polluted atmosphere. <i>Atmospheric Research</i> , 2021, 255, 105553.	4.1	16
33	Atmospheric gaseous hydrochloric and hydrobromic acid in urban Beijing, China: detection, source identification and potential atmospheric impacts. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 11437-11452.	4.9	12
34	Acidâ€“Base Clusters during Atmospheric New Particle Formation in Urban Beijing. <i>Environmental Science & Technology</i> , 2021, 55, 10994-11005.	10.0	34
35	Rapid mass growth and enhanced light extinction of atmospheric aerosols during the heating season haze episodes in Beijing revealed by aerosolâ€“chemistryâ€“radiationâ€“boundary layer interaction. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 12173-12187.	4.9	10
36	Ozone and SOA formation potential based on photochemical loss of VOCs during the Beijing summer. <i>Environmental Pollution</i> , 2021, 285, 117444.	7.5	75

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37	Ammonium nitrate promotes sulfate formation through uptake kinetic regime. Atmospheric Chemistry and Physics, 2021, 21, 13269-13286.	4.9	24
38	Contribution of Atmospheric Oxygenated Organic Compounds to Particle Growth in an Urban Environment. Environmental Science & Technology, 2021, 55, 13646-13656.	10.0	32
39	Measurement report: New particle formation characteristics at an urban and a mountain station in northern China. Atmospheric Chemistry and Physics, 2021, 21, 17885-17906.	4.9	7
40	Unprecedented Ambient Sulfur Trioxide (SO ₃) Detection: Possible Formation Mechanism and Atmospheric Implications. Environmental Science and Technology Letters, 2020, 7, 809-818.	8.7	34
41	Influence of Chinese New Year overlapping COVID-19 lockdown on HONO sources in Shijiazhuang. Science of the Total Environment, 2020, 745, 141025.	8.0	17
42	Continuous and comprehensive atmospheric observations in Beijing: a station to understand the complex urban atmospheric environment. Big Earth Data, 2020, 4, 295-321.	4.4	54
43	Responses of gaseous sulfuric acid and particulate sulfate to reduced SO ₂ concentration: A perspective from long-term measurements in Beijing. Science of the Total Environment, 2020, 721, 137700.	8.0	28
44	Seasonal Characteristics of New Particle Formation and Growth in Urban Beijing. Environmental Science & Technology, 2020, 54, 8547-8557.	10.0	78
45	Variation of size-segregated particle number concentrations in wintertime Beijing. Atmospheric Chemistry and Physics, 2020, 20, 1201-1216.	4.9	52
46	Chemical characterization of submicron aerosol in summertime Beijing: A case study in southern suburbs in 2018. Chemosphere, 2020, 247, 125918.	8.2	17
47	Ageing remarkably alters the toxicity of carbon black particles towards susceptible cells: determined by differential changes of surface oxygen groups. Environmental Science: Nano, 2020, 7, 1633-1641.	4.3	11
48	Size-resolved particle number emissions in Beijing determined from measured particle size distributions. Atmospheric Chemistry and Physics, 2020, 20, 11329-11348.	4.9	28
49	Sources and sinks driving sulfuric acid concentrations in contrasting environments: implications on proxy calculations. Atmospheric Chemistry and Physics, 2020, 20, 11747-11766.	4.9	42
50	Size-segregated particle number and mass concentrations from different emission sources in urban Beijing. Atmospheric Chemistry and Physics, 2020, 20, 12721-12740.	4.9	36
51	The promotion effect of nitrous acid on aerosol formation in wintertime in Beijing: the possible contribution of traffic-related emissions. Atmospheric Chemistry and Physics, 2020, 20, 13023-13040.	4.9	37
52	Assessment of particle size magnifier inversion methods to obtain the particle size distribution from atmospheric measurements. Atmospheric Measurement Techniques, 2020, 13, 4885-4898.	3.1	11
53	An interlaboratory comparison of aerosol inorganic ion measurements by ion chromatography: implications for aerosol pH estimate. Atmospheric Measurement Techniques, 2020, 13, 6325-6341.	3.1	16
54	Oxidation Potential Reduction of Carbon Nanomaterials during Atmospheric-Relevant Aging: Role of Surface Coating. Environmental Science & Technology, 2019, 53, 10454-10461.	10.0	13

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55	The effect of water on the heterogeneous reactions of SO ₂ and NH ₃ on the surfaces of Fe ₂ O ₃ and Al ₂ O ₃ . Environmental Science: Nano, 2019, 6, 2749-2758.	4.3	30
56	Influence of functional groups on toxicity of carbon nanomaterials. Atmospheric Chemistry and Physics, 2019, 19, 8175-8187.	4.9	32
57	Important role of aromatic hydrocarbons in SOA formation from unburned gasoline vapor. Atmospheric Environment, 2019, 201, 101-109.	4.1	33
58	Significant source of secondary aerosol: formation from gasoline evaporative emissions in the presence of SO ₂ and NH ₃ . Atmospheric Chemistry and Physics, 2019, 19, 8063-8081.	4.9	52
59	Effects of ultrasonic treatment on dithiothreitol (DTT) assay measurements for carbon materials. Journal of Environmental Sciences, 2019, 84, 51-58.	6.1	7
60	Secondary organic aerosol formation from the OH-initiated oxidation of guaiacol under different experimental conditions. Atmospheric Environment, 2019, 207, 30-37.	4.1	27
61	Rate constant and secondary organic aerosol formation from the gas-phase reaction of eugenol with hydroxyl radicals. Atmospheric Chemistry and Physics, 2019, 19, 2001-2013.	4.9	20
62	Enhancement of secondary organic aerosol formation and its oxidation state by SO ₂ during photooxidation of 2-methoxyphenol. Atmospheric Chemistry and Physics, 2019, 19, 2687-2700.	4.9	22
63	A proxy for atmospheric daytime gaseous sulfuric acid concentration in urban Beijing. Atmospheric Chemistry and Physics, 2019, 19, 1971-1983.	4.9	46
64	Effects of NO ₂ and C ₃ H ₆ on the heterogeneous oxidation of SO ₂ on TiO ₂ in the presence or absence of UV-Vis irradiation. Atmospheric Chemistry and Physics, 2019, 19, 14777-14790.	4.9	21
65	Differences of the oxidation process and secondary organic aerosol formation at low and high precursor concentrations. Journal of Environmental Sciences, 2019, 79, 256-263.	6.1	29
66	NO promotion of SO ₂ conversion to sulfate: An important mechanism for the occurrence of heavy haze during winter in Beijing. Environmental Pollution, 2018, 233, 662-669.	7.5	82
67	Role of NH ₃ in the Heterogeneous Formation of Secondary Inorganic Aerosols on Mineral Oxides. Journal of Physical Chemistry A, 2018, 122, 6311-6320.	2.5	25
68	Influence of metal-mediated aerosol-phase oxidation on secondary organic aerosol formation from the ozonolysis and OH-oxidation of α -pinene. Scientific Reports, 2017, 7, 40311.	3.3	15
69	Heterogeneous reaction of SO ₂ with soot: The roles of relative humidity and surface composition of soot in surface sulfate formation. Atmospheric Environment, 2017, 152, 465-476.	4.1	68
70	Structure-activity relationship of surface hydroxyl groups during NO ₂ adsorption and transformation on TiO ₂ nanoparticles. Environmental Science: Nano, 2017, 4, 2388-2394.	4.3	49
71	Heterogeneous reaction of NO ₂ with soot at different relative humidity. Environmental Science and Pollution Research, 2017, 24, 21248-21255.	5.3	15
72	Heterogeneous Reaction of SO ₂ on Manganese Oxides: the Effect of Crystal Structure and Relative Humidity. Scientific Reports, 2017, 7, 4550.	3.3	56

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73	Influence of sulfur in fuel on the properties of diffusion flame soot. Atmospheric Environment, 2016, 142, 383-392.	4.1	17
74	Ozonolysis of Trimethylamine Exchanged with Typical Ammonium Salts in the Particle Phase. Environmental Science & Technology, 2016, 50, 11076-11084.	10.0	18
75	The photoenhanced aging process of soot by the heterogeneous ozonization reaction. Physical Chemistry Chemical Physics, 2016, 18, 24401-24407.	2.8	23
76	Synergetic formation of secondary inorganic and organic aerosol: effect of SO ₂ and NH ₃ on particle formation and growth. Atmospheric Chemistry and Physics, 2016, 16, 14219-14230.	4.9	102
77	Exploring the nitrous acid (HONO) formation mechanism in winter Beijing: direct emissions and heterogeneous production in urban and suburban areas. Faraday Discussions, 2016, 189, 213-230.	3.2	77
78	Distinct potential aerosol masses under different scenarios of transport at a suburban site of Beijing. Journal of Environmental Sciences, 2016, 39, 52-61.	6.1	13
79	Synergistic formation of sulfate and ammonium resulting from reaction between SO ₂ and NH ₃ on typical mineral dust. Physical Chemistry Chemical Physics, 2016, 18, 956-964.	2.8	66
80	Reactive uptake of ammonia to secondary organic aerosols: kinetics of organonitrogen formation. Atmospheric Chemistry and Physics, 2015, 15, 13569-13584.	4.9	90
81	Laboratory study on OH-initiated degradation kinetics of dehydroabiatic acid. Physical Chemistry Chemical Physics, 2015, 17, 10953-10962.	2.8	14
82	Stability of polycyclic aromatic compounds in polyurethane foam-type passive air samplers upon O ₃ exposure. Atmospheric Environment, 2015, 120, 200-204.	4.1	11
83	Chemical and Toxicological Evolution of Carbon Nanotubes During Atmospherically Relevant Aging Processes. Environmental Science & Technology, 2015, 49, 2806-2814.	10.0	37
84	Effect of aluminium dust on secondary organic aerosol formation in m-xylene/NO _x photo-oxidation. Science China Earth Sciences, 2015, 58, 245-254.	5.2	8
85	Secondary aerosol formation and oxidation capacity in photooxidation in the presence of Al ₂ O ₃ seed particles and SO ₂ . Science China Chemistry, 2015, 58, 1426-1434.	8.2	14
86	Comparisons of measured nitrous acid (HONO) concentrations in a pollution period at urban and suburban Beijing, in autumn of 2014. Science China Chemistry, 2015, 58, 1393-1402.	8.2	41
87	Heterogeneous Kinetics of <i>cis</i> -Pinonic Acid with Hydroxyl Radical under Different Environmental Conditions. Journal of Physical Chemistry A, 2015, 119, 6583-6593.	2.5	22
88	Influence of relative humidity on heterogeneous kinetics of NO ₂ on kaolin and hematite. Physical Chemistry Chemical Physics, 2015, 17, 19424-19431.	2.8	43
89	Degradation kinetics of levoglucosan initiated by hydroxyl radical under different environmental conditions. Atmospheric Environment, 2014, 91, 32-39.	4.1	129
90	Decreasing effect and mechanism of FeSO ₄ seed particles on secondary organic aerosol in α -pinene photooxidation. Environmental Pollution, 2014, 193, 88-93.	7.5	27

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91	Photocatalytic Removal of NO _x over Visible Light Responsive Oxygen-Deficient TiO ₂ . Journal of Physical Chemistry C, 2014, 118, 7434-7441.	3.1	116
92	Heterogeneous OH Initiated Oxidation: A Possible Explanation for the Persistence of Organophosphate Flame Retardants in Air. Environmental Science & Technology, 2014, 48, 1041-1048.	10.0	102
93	OH-initiated heterogeneous oxidation of tris-2-butoxyethyl phosphate: implications for its fate in the atmosphere. Atmospheric Chemistry and Physics, 2014, 14, 12195-12207.	4.9	23
94	Technical Note: Application of positive matrix factor analysis in heterogeneous kinetics studies utilizing the mixed-phase relative rates technique. Atmospheric Chemistry and Physics, 2014, 14, 9201-9211.	4.9	11
95	Effect of mineral dust on secondary organic aerosol yield and aerosol size in α -pinene/NO _x photo-oxidation. Atmospheric Environment, 2013, 77, 781-789.	4.1	35
96	Heterogeneous photochemical reaction of ozone with anthracene adsorbed on mineral dust. Atmospheric Environment, 2013, 72, 165-170.	4.1	15
97	Heterogeneous and multiphase formation pathways of gypsum in the atmosphere. Physical Chemistry Chemical Physics, 2013, 15, 19196.	2.8	25
98	Heterogeneous photochemical aging of soot by NO ₂ under simulated sunlight. Atmospheric Environment, 2013, 64, 270-276.	4.1	50
99	Review of heterogeneous photochemical reactions of NO _y on aerosol – A possible daytime source of nitrous acid (HONO) in the atmosphere. Journal of Environmental Sciences, 2013, 25, 326-334.	6.1	36
100	Alumina with Various Pore Structures Prepared by Spray Pyrolysis of Inorganic Aluminum Precursors. Industrial & Engineering Chemistry Research, 2013, 52, 13377-13383.	3.7	6
101	Role of Organic Carbon in Heterogeneous Reaction of NO ₂ with Soot. Environmental Science & Technology, 2013, 47, 3174-3181.	10.0	70
102	Effect of soot microstructure on its ozonization reactivity. Journal of Chemical Physics, 2012, 137, 084507.	3.0	25
103	Differences in the reactivity of ammonium salts with methylamine. Atmospheric Chemistry and Physics, 2012, 12, 4855-4865.	4.9	30
104	Heterogeneous reaction of acetic acid on MgO, α -Al ₂ O ₃ , and CaCO ₃ and the effect on the hygroscopic behaviour of these particles. Physical Chemistry Chemical Physics, 2012, 14, 8403.	2.8	71
105	Synergistic reaction between SO ₂ and NO ₂ on mineraloxides: a potential formation pathway of sulfate aerosol. Physical Chemistry Chemical Physics, 2012, 14, 1668-1676.	2.8	143
106	Heterogeneous Uptake of Amines by Citric Acid and Humic Acid. Environmental Science & Technology, 2012, 46, 11112-11118.	10.0	34
107	Influence of Combustion Conditions on Hydrophilic Properties and Microstructure of Flame Soot. Journal of Physical Chemistry A, 2012, 116, 4129-4136.	2.5	46
108	Alkali-Metal-Promoted Pt/TiO ₂ Opens a More Efficient Pathway to Formaldehyde Oxidation at Ambient Temperatures. Angewandte Chemie - International Edition, 2012, 51, 9628-9632.	13.8	611

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109	Key role of organic carbon in the sunlight-enhanced atmospheric aging of soot by O ₂ . Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 21250-21255.	7.1	66
110	A case study of Asian dust storm particles: Chemical composition, reactivity to SO ₂ and hygroscopic properties. Journal of Environmental Sciences, 2012, 24, 62-71.	6.1	43
111	A direct sulfation method for introducing the transition metal cation Co ²⁺ into ZrO ₂ with little change in the Brønsted acid sites. Journal of Catalysis, 2011, 279, 301-309.	6.2	8
112	Heterogeneous reactions between NO ₂ and anthracene adsorbed on SiO ₂ and MgO. Atmospheric Environment, 2011, 45, 917-924.	4.1	35
113	Effects of Adding CeO ₂ to Ag/Al ₂ O ₃ Catalyst for Ammonia Oxidation at Low Temperatures. Chinese Journal of Catalysis, 2011, 32, 727-735.	14.0	22
114	Influence of calcination temperature on iron titanate catalyst for the selective catalytic reduction of NO _x with NH ₃ . Catalysis Today, 2011, 164, 520-527.	4.4	98
115	Heterogeneous reactions of carbonyl sulfide on mineral oxides: mechanism and kinetics study. Atmospheric Chemistry and Physics, 2010, 10, 10335-10344.	4.9	17
116	In situ DRIFTS study of hygroscopic behavior of mineral aerosol. Journal of Environmental Sciences, 2010, 22, 555-560.	6.1	64
117	Degradation kinetics of anthracene by ozone on mineral oxides. Atmospheric Environment, 2010, 44, 4446-4453.	4.1	36
118	Mesoporous transition alumina with uniform pore structure synthesized by alumisol spray pyrolysis. Chemical Engineering Journal, 2010, 163, 133-142.	12.7	33
119	Heterogeneous uptake of carbonyl sulfide onto kaolinite within a temperature range of 220–330 K. Journal of Geophysical Research, 2010, 115, .	3.3	13
120	The Utilization of Physisorption Analyzer for Studying the Hygroscopic Properties of Atmospheric Relevant Particles. Journal of Physical Chemistry A, 2010, 114, 4232-4237.	2.5	30
121	Structural and hygroscopic changes of soot during heterogeneous reaction with O ₃ . Physical Chemistry Chemical Physics, 2010, 12, 10896.	2.8	86
122	Experimental and Theoretical Study of Hydrogen Thiocarbonate for Heterogeneous Reaction of Carbonyl Sulfide on Magnesium Oxide. Journal of Physical Chemistry A, 2009, 113, 3387-3394.	2.5	32
123	Heterogeneous reactivity of carbonyl sulfide on γ-Al ₂ O ₃ and β-Al ₂ O ₃ . Atmospheric Environment, 2008, 42, 960-969.	4.1	35
124	Synergistic Effect between NO ₂ and SO ₂ in Their Adsorption and Reaction on γ-Alumina. Journal of Physical Chemistry A, 2008, 112, 6630-6635.	2.5	110
125	Temperature Dependence of the Heterogeneous Reaction of Carbonyl Sulfide on Magnesium Oxide. Journal of Physical Chemistry A, 2008, 112, 2820-2826.	2.5	32
126	Oxygen Poisoning Mechanism of Catalytic Hydrolysis of OCS over Al ₂ O ₃ at Room Temperature. Acta Physico-chimica Sinica, 2007, 23, 997-1002.	0.6	19

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127	Mechanism of Heterogeneous Reaction of Carbonyl Sulfide on Magnesium Oxide. Journal of Physical Chemistry A, 2007, 111, 4333-4339.	2.5	36
128	Heterogeneous oxidation of carbonyl sulfide on mineral oxides. Science Bulletin, 2007, 52, 2063-2071.	1.7	13