Hong He

List of Publications by Citations

496	23,470	79	132
papers	citations	h-index	g-index
542	28,303	8.2	7.48
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
496	Drivers of improved PM air quality in China from 2013 to 2017. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 24463-24469	11.5	578
495	Plasmon-induced photodegradation of toxic pollutants with Ag-AgI/Al2O3 under visible-light irradiation. *Journal of the American Chemical Society*, **2010**, 132, 857-62	16.4	506
494	Effect of manganese substitution on the structure and activity of iron titanate catalyst for the selective catalytic reduction of NO with NH3. *Applied Catalysis B: Environmental*, **2009**, 93, 194-204	21.8	486
493	Alkali-metal-promoted Pt/TiO2 opens a more efficient pathway to formaldehyde oxidation at ambient temperatures. *Angewandte Chemie - International Edition*, **2012**, 51, 9628-32	16.4	481
492	A superior Ce-W-Ti mixed oxide catalyst for the selective catalytic reduction of NOx with NH3. *Applied Catalysis B: Environmental*, **2012**, 115-116, 100-106	21.8	480
491	Catalytic performance and mechanism of a Pt/TiO2 catalyst for the oxidation of formaldehyde at room temperature. *Applied Catalysis B: Environmental*, **2006**, 65, 37-43	21.8	428
490	Arsenate adsorption on an Fe-Ce bimetal oxide adsorbent: role of surface properties. *Environmental Science & Technology*, **2005**, 39, 7246-53	10.3	402
489	Catalytic decomposition of N2O over CeO2 promoted Co3O4 spinel catalyst. *Applied Catalysis B: Environmental*, **2007**, 75, 167-174	21.8	383
488	Mineral dust and NOx promote the conversion of SO2 to sulfate in heavy pollution days. *Scientific Reports*, **2014**, 4, 4172	4.9	352
487	Catalytic oxidation of formaldehyde over manganese oxides with different crystal structures. *Catalysis Science and Technology*, **2015**, 5, 2305-2313	5.5	339
486	Deactivation of a Ce/TiO2 Catalyst by SO2 in the Selective Catalytic Reduction of NO by NH3. *Journal of Physical Chemistry C*, **2009**, 113, 4426-4432	3.8	327
485	Novel cerium-tungsten mixed oxide catalyst for the selective catalytic reduction of NO(x) with NH3. *Chemical Communications*, **2011**, 47, 8046-8	5.8	307
484	Selective catalytic reduction of NO by NH3 over a Ce/TiO2 catalyst. *Catalysis Communications*, **2008**, 9, 1453-1457	3.2	279
483	The effect of ethanol blended diesel fuels on emissions from a diesel engine. *Atmospheric Environment*, **2003**, 37, 4965-4971	5.3	272
482	Highly active catalysts of gold nanoparticles supported on three-dimensionally ordered macroporous LaFeO3 for soot oxidation. *Angewandte Chemie - International Edition*, **2011**, 50, 2326-9	16.4	271
481	Pretreatments of Co3O4 at moderate temperature for CO oxidation at 80 °C. *Journal of Catalysis*, **2009**, 267, 121-128	7.3	259
480	Structure–Activity Relationship of Iron Titanate Catalysts in the Selective Catalytic Reduction of NOx with NH3. *Journal of Physical Chemistry C*, **2010**, 114, 16929-16936	3.8	256

479	Enhanced photocatalytic oxidation of NO over g-C3N4-TiO2 under UV and visible light. *Applied Catalysis B: Environmental*, **2016**, 184, 28-34	21.8	241
478	A comparative study of TiO2 supported noble metal catalysts for the oxidation of formaldehyde at room temperature. *Catalysis Today*, **2007**, 126, 345-350	5.3	235
477	Self-Assembly of Novel Mesoporous Manganese Oxide Nanostructures and Their Application in Oxidative Decomposition of Formaldehyde. *Journal of Physical Chemistry C*, **2007**, 111, 18033-18038	3.8	224
476	Selective catalytic reduction of NO with NH3 over iron titanate catalyst: Catalytic performance and characterization. *Applied Catalysis B: Environmental*, **2010**, 96, 408-420	21.8	220
475	Emission reduction potential of using ethanol–biodiesel–diesel fuel blend on a heavy-duty diesel engine. *Atmospheric Environment*, **2006**, 40, 2567-2574	5.3	214
474	Environmentally-benign catalysts for the selective catalytic reduction of NO(x) from diesel engines: structure-activity relationship and reaction mechanism aspects. *Chemical Communications*, **2014**, 50, 8445-63	5.8	206
473	Excellent performance of one-pot synthesized Cu-SSZ-13 catalyst for the selective catalytic reduction of NOx with NH3. *Environmental Science & Technology*, **2014**, 48, 566-72	10.3	200
472	Influence of sulfation on iron titanate catalyst for the selective catalytic reduction of NOx with NH3. *Applied Catalysis B: Environmental*, **2011**, 103, 369-377	21.8	200
471	Sodium-promoted Pd/TiO2 for catalytic oxidation of formaldehyde at ambient temperature. *Environmental Science & Technology*, **2014**, 48, 5816-22	10.3	198
470	Manganese–niobium mixed oxide catalyst for the selective catalytic reduction of NOx with NH3 at low temperatures. *Chemical Engineering Journal*, **2014**, 250, 390-398	14.7	189
469	Perfect catalytic oxidation of formaldehyde over a Pt/TiO2 catalyst at room temperature. *Catalysis Communications*, **2005**, 6, 211-214	3.2	186
468	High-resolution ammonia emissions inventories in China from 1980 to 2012. *Atmospheric Chemistry and Physics*, **2016**, 16, 2043-2058	6.8	185
467	Industrial carbon dioxide capture and utilization: state of the art and future challenges. *Chemical Society Reviews*, **2020**, 49, 8584-8686	58.5	184
466	Transition metal doped cryptomelane-type manganese oxide catalysts for ozone decomposition. *Applied Catalysis B: Environmental*, **2017**, 201, 503-510	21.8	177
465	Selective catalytic reduction of NO with NH3 over manganese substituted iron titanate catalyst: Reaction mechanism and H2O/SO2 inhibition mechanism study. *Catalysis Today*, **2010**, 153, 70-76	5.3	152
464	Three-dimensionally ordered macroporous Ce0.8Zr0.2O2-supported gold nanoparticles: synthesis with controllable size and super-catalytic performance for soot oxidation. *Energy and Environmental Science*, **2011**, 4, 2959	35.4	149
463	An environmentally-benign CeO2-TiO2 catalyst for the selective catalytic reduction of NOx with NH3 in simulated diesel exhaust. *Catalysis Today*, **2012**, 184, 160-165	5.3	146
462	Significant Promotion Effect of Mo Additive on a Novel Ce-Zr Mixed Oxide Catalyst for the Selective Catalytic Reduction of NO(x) with NH3. *ACS Applied Materials & Interfaces*, **2015**, 7, 9497-506	8.5	144

461	Selective catalytic reduction of NOx over Ag/Al2O3 catalyst: from reaction mechanism to diesel engine test. *Catalysis Today*, **2005**, 100, 37-47	5.3	141
460	Removal of azo-dye Acid Red B (ARB) by adsorption and catalytic combustion using magnetic CuFe2O4 powder. *Applied Catalysis B: Environmental*, **2004**, 48, 49-56	21.8	137
459	Catalytic oxidation of nitrogen monoxide over La1−xCexCoO3 perovskites. *Catalysis Today*, **2007**, 126, 400-405	5.3	135
458	Mechanism of the selective catalytic reduction of NOx with NH3 over environmental-friendly iron titanate catalyst. *Catalysis Today*, **2011**, 175, 18-25	5.3	134
457	Emission characteristics using methyl soyate–ethanol–diesel fuel blends on a diesel engine. *Fuel*, **2005**, 84, 1543-1543	7.1	134
456	Single-atom site catalysts for environmental catalysis. *Nano Research*, **2020**, 13, 3165-3182	10	134
455	Mechanism of selective catalytic oxidation of ammonia to nitrogen over Ag/Al2O3. *Journal of Catalysis*, **2009**, 268, 18-25	7.3	132
454	Novel iron titanate catalyst for the selective catalytic reduction of NO with NH3 in the medium temperature range. *Chemical Communications*, **2008**, 2043-5	5.8	125
453	Highly dispersed iron vanadate catalyst supported on TiO2 for the selective catalytic reduction of NOx with NH3. *Journal of Catalysis*, **2013**, 307, 340-351	7.3	123
452	Mechanism of the selective catalytic reduction of NOx by C2H5OH over Ag/Al2O3. *Applied Catalysis B: Environmental*, **2004**, 49, 159-171	21.8	121
451	Oxygen Vacancies Induced by Transition Metal Doping in γ-MnO for Highly Efficient Ozone Decomposition. *Environmental Science & Technology*, **2018**, 52, 12685-12696	10.3	120
450	Contrasting trends of PM and surface-ozone concentrations in China from 2013 to 2017. *National Science Review*, **2020**, 7, 1331-1339	10.8	119
449	High temperature reduction dramatically promotes Pd/TiO2 catalyst for ambient formaldehyde oxidation. *Applied Catalysis B: Environmental*, **2017**, 217, 560-569	21.8	116
448	Promotional effect of Nb additive on the activity and hydrothermal stability for the selective catalytic reduction of NO with NH3 over CeZrO catalyst. *Applied Catalysis B: Environmental*, **2016**, 180, 766-774	21.8	115
447	Novel MnWOx catalyst with remarkable performance for low temperature NH3-SCR of NOx. *Catalysis Science and Technology*, **2013**, 3, 2699	5.5	111
446	A novel W-doped Ni-Mg mixed oxide catalyst for CO2 methanation. *Applied Catalysis B: Environmental*, **2016**, 196, 108-116	21.8	110
445	Synergistic reaction between SO2 and NO2 on mineral oxides: a potential formation pathway of sulfate aerosol. *Physical Chemistry Chemical Physics*, **2012**, 14, 1668-76	3.6	109
444	Characterization and reactivity of MnO(x) supported on mesoporous zirconia for herbicide 2,4-D mineralization with ozone. *Environmental Science & Technology*, **2008**, 42, 3363-8	10.3	109

443	Polymeric vanadyl species determine the low-temperature activity of V-based catalysts for the SCR of NO with NH. *Science Advances*, **2018**, 4, eaau4637	14.3	109
442	The Effects of Mn2+ Precursors on the Structure and Ozone Decomposition Activity of Cryptomelane-Type Manganese Oxide (OMS-2) Catalysts. *Journal of Physical Chemistry C*, **2015**, 119, 23119-23126	3.8	104
441	Degradation kinetics of levoglucosan initiated by hydroxyl radical under different environmental conditions. *Atmospheric Environment*, **2014**, 91, 32-39	5.3	104
440	Photocatalytic Removal of NOx over Visible Light Responsive Oxygen-Deficient TiO2. *Journal of Physical Chemistry C*, **2014**, 118, 7434-7441	3.8	104
439	Characteristics of carbonyl compounds emission from a diesel-engine using biodiesel□ethanol□diesel as fuel. *Atmospheric Environment*, **2006**, 40, 7057-7065	5.3	104
438	The smart surface modification of Fe2O3 by WOx for significantly promoting the selective catalytic reduction of NOx with NH3. *Applied Catalysis B: Environmental*, **2018**, 230, 165-176	21.8	103
437	Effect of Fe on the photocatalytic removal of NO over visible light responsive Fe/TiO2 catalysts. *Applied Catalysis B: Environmental*, **2015**, 179, 21-28	21.8	102
436	The use of ceria for the selective catalytic reduction of NOx with NH3. *Chinese Journal of Catalysis*, **2014**, 35, 1251-1259	11.3	101
435	Ultrasound-Assisted Nanocasting Fabrication of Ordered Mesoporous MnO2 and Co3O4 with High Surface Areas and Polycrystalline Walls. *Journal of Physical Chemistry C*, **2010**, 114, 2694-2700	3.8	100
434	The role of silver species on Ag/Al2O3 catalysts for the selective catalytic oxidation of ammonia to nitrogen. *Journal of Catalysis*, **2009**, 261, 101-109	7.3	100
433	Promotion effects and mechanism of alkali metals and alkaline earth metals on cobalt-cerium composite oxide catalysts for N2O decomposition. *Environmental Science & Technology*, **2009**, 43, 890-5	10.3	100
432	High hydrothermal stability of Cu□SAPO-34 catalysts for the NH3-SCR of NOx. *Chemical Engineering Journal*, **2016**, 294, 254-263	14.7	96
431	Inhibitory effect of NO2 on the selective catalytic reduction of NOx with NH3 over one-pot-synthesized Cu□SSZ-13 catalyst. *Catalysis Science and Technology*, **2014**, 4, 1104	5.5	96
430	Carbonyls emission from ethanol-blended gasoline and biodiesel-ethanol-diesel used in engines. *Atmospheric Environment*, **2008**, 42, 1349-1358	5.3	95
429	Facile In-Situ Synthesis of Manganese Dioxide Nanosheets on Cellulose Fibers and their Application in Oxidative Decomposition of Formaldehyde. *Journal of Physical Chemistry C*, **2011**, 115, 16873-16878	3.8	94
428	Synergistic effect between NO2 and SO2 in their adsorption and reaction on gamma-alumina. *Journal of Physical Chemistry A*, **2008**, 112, 6630-5	2.8	93
427	The Remarkable Improvement of a Ce?Ti based Catalyst for NOx Abatement, Prepared by a Homogeneous Precipitation Method. *ChemCatChem*, **2011**, 3, 1286-1289	5.2	92
426	Complete oxidation of o-xylene over Pd/Al2O3 catalyst at low temperature. *Catalysis Today*, **2008**, 139, 15-23	5.3	92

425	NH3-SCR performance of fresh and hydrothermally aged Fe-ZSM-5 in standard and fast selective catalytic reduction reactions. *Environmental Science & Technology*, **2013**, 47, 3293-8	10.3	91
424	Reduction of lean NOx by ethanol over Ag/Al2O3 catalysts in the presence of H2O and SO2. *Catalysis Letters*, **1998**, 50, 87-91	2.8	90
423	Ultrasound-assisted nanocasting fabrication and excellent catalytic performance of three-dimensionally ordered mesoporous chromia for the combustion of formaldehyde, acetone, and methanol. *Applied Catalysis B: Environmental*, **2010**, 100, 229-237	21.8	89
422	Effects of post-treatment method and Na co-cation on the hydrothermal stability of Cu□SZ-13 catalyst for the selective catalytic reduction of NO with NH3. *Applied Catalysis B: Environmental*, **2015**, 179, 206-212	21.8	88
421	Formation and reactivity of isocyanate (NCO) species on Ag/Al2O3. *Journal of the Chemical Society, Faraday Transactions*, **1998**, 94, 2217-2219		85
420	Influence of calcination temperature on iron titanate catalyst for the selective catalytic reduction of NOx with NH3. *Catalysis Today*, **2011**, 164, 520-527	5.3	83
419	Decomposition of high-level ozone under high humidity over Mn□e catalyst: The influence of iron precursors. *Catalysis Communications*, **2015**, 59, 156-160	3.2	79
418	Influence of alkali metals on Pd/TiO2 catalysts for catalytic oxidation of formaldehyde at room temperature. *Catalysis Science and Technology*, **2016**, 6, 2289-2295	5.5	79
417	Enhanced Activity of Ti-Modified V2O5/CeO2 Catalyst for the Selective Catalytic Reduction of NOx with NH3. *Industrial & Engineering Chemistry Research*, **2014**, 53, 19506-19511	3.9	79
416	Promotion effect of residual K on the decomposition of N2O over cobalt□erium mixed oxide catalyst. *Catalysis Today*, **2007**, 126, 449-455	5.3	79
415	Haze insights and mitigation in China: an overview. *Journal of Environmental Sciences*, **2014**, 26, 2-12	6.4	77
414	Well-dispersed palladium supported on ordered mesoporous Co3O4 for catalytic oxidation of o-xylene. *Applied Catalysis B: Environmental*, **2013**, 142-143, 72-79	21.8	77
413	Nanosize Effect of Al2O3 in Ag/Al2O3 Catalyst for the Selective Catalytic Oxidation of Ammonia. *ACS Catalysis*, **2018**, 8, 2670-2682	13.1	75
412	Magnetic core□shell Fe3O4@C-SO3H nanoparticle catalyst for hydrolysis of cellulose. *Cellulose*, **2013**, 20, 127-134	5.5	73
411	Silver incorporated into cryptomelane-type Manganese oxide boosts the catalytic oxidation of benzene. *Applied Catalysis B: Environmental*, **2018**, 239, 214-222	21.8	71
410	Effect of Support on the Activity of Ag-based Catalysts for Formaldehyde Oxidation. *Scientific Reports*, **2015**, 5, 12950	4.9	70
409	Structural and hygroscopic changes of soot during heterogeneous reaction with O(3). *Physical Chemistry Chemical Physics*, **2010**, 12, 10896-903	3.6	69
408	Ozonation of alachlor catalyzed by Cu/Al2O3 in water. *Catalysis Today*, **2004**, 90, 291-296	5.3	69

407	Promotion of ceria for decomposition of ammonia bisulfate over V2O5-MoO3/TiO2 catalyst for selective catalytic reduction. *Chemical Engineering Journal*, **2016**, 303, 275-281	14.7	68
406	NO promotion of SO conversion to sulfate: An important mechanism for the occurrence of heavy haze during winter in Beijing. *Environmental Pollution*, **2018**, 233, 662-669	9.3	68
405	A MnO2-based catalyst with H2O resistance for NH3-SCR: Study of catalytic activity and reactants-H2O competitive adsorption. *Applied Catalysis B: Environmental*, **2020**, 270, 118860	21.8	67
404	Catalytic Ozonation of Herbicide 2,4-D over Cobalt Oxide Supported on Mesoporous Zirconia. *Journal of Physical Chemistry C*, **2008**, 112, 5978-5983	3.8	67
403	A comparative study of Ag/Al2O3 and Cu/Al2O3 catalysts for the selective catalytic reduction of NO by C3H6. *Catalysis Today*, **2004**, 90, 191-197	5.3	64
402	Novel Enolic Surface Species Formed during Partial Oxidation of CH3CHO, C2H5OH, and C3H6on Ag/Al2O3:An in Situ DRIFTS Study. *Journal of Physical Chemistry B*, **2003**, 107, 13090-13092	3.4	62
401	A comparative study of the activity and hydrothermal stability of Al-rich Cu-SSZ-39 and Cu-SSZ-13. *Applied Catalysis B: Environmental*, **2020**, 264, 118511	21.8	62
400	Synergetic formation of secondary inorganic and organic aerosol: effect of SO₂ and NH₃ on particle formation and growth. *Atmospheric Chemistry and Physics*, **2016**, 16, 14219-14230	6.8	61
399	DRIFTS study of a CeW mixed oxide catalyst for the selective catalytic reduction of NOx with NH3. *Catalysis Science and Technology*, **2015**, 5, 2290-2299	5.5	60
398	Significant concurrent decrease in PM and NO concentrations in China during COVID-19 epidemic. *Journal of Environmental Sciences*, **2021**, 99, 346-353	6.4	59
397	Heterogeneous reaction of acetic acid on MgO, Al2O3, and CaCO3 and the effect on the hygroscopic behaviour of these particles. *Physical Chemistry Chemical Physics*, **2012**, 14, 8403-9	3.6	58
396	Dynamic Characterization of the Intermediates for Low-Temperature PROX Reaction of CO in H2Oxidation of CO with OH via HCOO Intermediate. *Journal of Physical Chemistry C*, **2009**, 113, 12427-12433	3.8	58
395	A superior Fe-V-Ti catalyst with high activity and SO resistance for the selective catalytic reduction of NO with NH. *Journal of Hazardous Materials*, **2020**, 382, 120970	12.8	58
394	Role of organic carbon in heterogeneous reaction of NO2 with soot. *Environmental Science & Technology*, **2013**, 47, 3174-81	10.3	57
393	Bactericidal mechanism of Ag/Al2O3 against Escherichia coli. *Langmuir*, **2007**, 23, 11197-9	4	57
392	A New Catalyst for Selective Oxidation of CO in H2: Part 1, Activation by Depositing a Large Amount of FeO x on Pt/Al2O3 and Pt/CeO2 Catalysts. *Catalysis Letters*, **2004**, 92, 115-121	2.8	55
391	Morphology-dependent bactericidal activities of Ag/CeO2 catalysts against Escherichia coli. *Journal of Inorganic Biochemistry*, **2014**, 135, 45-53	4.2	54
390	Precipitable silver compound catalysts for the selective catalytic reduction of NOx by ethanol. *Applied Catalysis A: General*, **2010**, 375, 258-264	5.1	54

389	Oxygen vacancy clusters essential for the catalytic activity of CeO nanocubes for o-xylene oxidation. *Scientific Reports*, **2017**, 7, 12845	4.9	53
388	Exploring the nitrous acid (HONO) formation mechanism in winter Beijing: direct emissions and heterogeneous production in urban and suburban areas. *Faraday Discussions*, **2016**, 189, 213-30	3.6	53
387	Role of Structural Defects in MnO Promoted by Ag Doping in the Catalytic Combustion of Volatile Organic Compounds and Ambient Decomposition of O. *Environmental Science & Technology*, **2019**, 53, 10871-10879	10.3	53
386	In situ DRIFTS study of hygroscopic behavior of mineral aerosol. *Journal of Environmental Sciences*, **2010**, 22, 555-60	6.4	53
385	Ordered mesoporous and bulk Co3O4 supported Pd catalysts for catalytic oxidation of o-xylene. *Catalysis Today*, **2015**, 242, 294-299	5.3	52
384	Sodium Enhances Ir/TiO2 Activity for Catalytic Oxidation of Formaldehyde at Ambient Temperature. *ACS Catalysis*, **2018**, 8, 11377-11385	13.1	52
383	Reduction of CO2with H2O on TiO2(100) and TiO2(110) Single Crystals under UV-irradiation. *Chemistry Letters*, **1994**, 23, 855-858	1.7	51
382	SO Initiates the Efficient Conversion of NO to HONO on MgO Surface. *Environmental Science & Technology*, **2017**, 51, 3767-3775	10.3	50
381	Facet-dependent performance of anatase TiO2 for photocatalytic oxidation of gaseous ammonia. *Applied Catalysis B: Environmental*, **2018**, 223, 209-215	21.8	50
380	Review of Ag/Al2O3-Reductant System in the Selective Catalytic Reduction of NO x. *Catalysis Surveys From Asia*, **2008**, 12, 38-55	2.8	50
379	Significant enhancement of the oxidation of CO by H2 and/or H2O on a FeO x /Pt/TiO2 catalyst. *Catalysis Letters*, **2006**, 110, 185-190	2.8	50
378	Effect of V2O5 Additive on the SO2 Resistance of a Fe2O3/AC Catalyst for NH3-SCR of NOx at Low Temperatures. *Industrial & Engineering Chemistry Research*, **2016**, 55, 2677-2685	3.9	50
377	Nature of Ag Species on Ag/Al2O3: A Combined Experimental and Theoretical Study. *ACS Catalysis*, **2014**, 4, 2776-2784	13.1	49
376	Novel Pd promoted Ag/Al2O3 catalyst for the selective reduction of NOx. *Applied Catalysis B: Environmental*, **2003**, 46, 365-370	21.8	49
375	Precise control of post-treatment significantly increases hydrothermal stability of in-situ synthesized cu-zeolites for NH3-SCR reaction. *Applied Catalysis B: Environmental*, **2020**, 266, 118655	21.8	47
374	Shape dependence of nanoceria on complete catalytic oxidation of o-xylene. *Catalysis Science and Technology*, **2016**, 6, 4840-4848	5.5	47
373	A review of experimental techniques for aerosol hygroscopicity studies. *Atmospheric Chemistry and Physics*, **2019**, 19, 12631-12686	6.8	46
372	Photocatalytic oxidation of gaseous ammonia over fluorinated TiO2 with exposed (001) facets. *Applied Catalysis B: Environmental*, **2014**, 152-153, 82-87	21.8	46

371	Selective oxidation of ammonia over copper-silver-based catalysts. *Catalysis Today*, **2004**, 90, 263-267	5.3	46
370	Synergistic formation of sulfate and ammonium resulting from reaction between SO2 and NH3 on typical mineral dust. *Physical Chemistry Chemical Physics*, **2016**, 18, 956-64	3.6	45
369	Combination of biodiesel-ethanol-diesel fuel blend and SCR catalyst assembly to reduce emissions from a heavy-duty diesel engine. *Journal of Environmental Sciences*, **2008**, 20, 177-82	6.4	45
368	Heterogeneous reaction of SO2 with soot: The roles of relative humidity and surface composition of soot in surface sulfate formation. *Atmospheric Environment*, **2017**, 152, 465-476	5.3	44
367	Resolving the puzzle of single-atom silver dispersion on nanosized □AlO surface for high catalytic performance. *Nature Communications*, **2020**, 11, 529	17.4	43
366	Intimate contact of enolic species with silver sites benefits the SCR of NOx by ethanol over Ag/Al2O3. *Journal of Catalysis*, **2012**, 293, 13-26	7.3	43
365	Key role of organic carbon in the sunlight-enhanced atmospheric aging of soot by O2. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 21250-5	11.5	43
364	Effect of hydrogen on reaction intermediates in the selective catalytic reduction of NOx by C3H6. *Applied Catalysis B: Environmental*, **2007**, 76, 241-247	21.8	43
363	High-performance of Cu-TiO2 for photocatalytic oxidation of formaldehyde under visible light and the mechanism study. *Chemical Engineering Journal*, **2020**, 390, 124481	14.7	42
362	Variations and sources of nitrous acid (HONO) during a severe pollution episode in Beijing in winter 2016. *Science of the Total Environment*, **2019**, 648, 253-262	10.2	42
361	Hydrogen production from oxidative steam reforming of ethanol over rhodium catalysts supported on Ce□a solid solution. *International Journal of Hydrogen Energy*, **2013**, 38, 10293-10304	6.7	42
360	Complete oxidation of formaldehyde at room temperature over an Al-rich Beta zeolite supported platinum catalyst. *Applied Catalysis B: Environmental*, **2017**, 219, 200-208	21.8	42
359	Heterogeneous photochemical aging of soot by NO2 under simulated sunlight. *Atmospheric Environment*, **2013**, 64, 270-276	5.3	41
358	Effect of pretreatment on pd/Al2O3 catalyst for catalytic oxidation of o-xylene at low temperature. *Journal of Environmental Sciences*, **2013**, 25, 1206-12	6.4	41
357	Influence of combustion conditions on hydrophilic properties and microstructure of flame soot. *Journal of Physical Chemistry A*, **2012**, 116, 4129-36	2.8	41
356	Recent advances in catalytic decomposition of ozone. *Journal of Environmental Sciences*, **2020**, 94, 14-31	6.4	40
355	Electrochemical Synthesis of Catalytically Active Ru/RuO2 Core□Shell Nanoparticles without Stabilizer. *Chemistry of Materials*, **2010**, 22, 4056-4061	9.6	40
354	Efficient disinfection of Escherichia coli in water by silver loaded alumina. *Journal of Inorganic Biochemistry*, **2008**, 102, 1736-42	4.2	40

353	Insights into the Activation Effect of H2 Pretreatment on Ag/Al2O3 Catalyst for the Selective Oxidation of Ammonia. *ACS Catalysis*, **2019**, 9, 1437-1445	13.1	40
352	Heterogeneous Reaction of SO on Manganese Oxides: the Effect of Crystal Structure and Relative Humidity. *Scientific Reports*, **2017**, 7, 4550	4.9	39
351	Hygroscopic properties of oxalic acid and atmospherically relevant oxalates. *Atmospheric Environment*, **2013**, 69, 281-288	5.3	39
350	Conformational analysis of sulfate species on Ag/Al2O3 by means of theoretical and experimental vibration spectra. *Journal of Physical Chemistry B*, **2006**, 110, 8320-4	3.4	39
349	Deactivation of Cu-SSZ-13 in the presence of SO2 during hydrothermal aging. *Catalysis Today*, **2019**, 320, 84-90	5.3	39
348	Palladium supported on low-surface-area fiber-based materials for catalytic oxidation of volatile organic compounds. *Chemical Engineering Journal*, **2018**, 348, 361-369	14.7	38
347	Improvement of Nb Doping on SO2Resistance of VOx/CeO2Catalyst for the Selective Catalytic Reduction of NOxwith NH3. *Journal of Physical Chemistry C*, **2017**, 121, 7803-7809	3.8	37
346	Effect of the pressure on the catalytic oxidation of volatile organic compounds over Ag/Al2O3 catalyst. *Applied Catalysis B: Environmental*, **2009**, 89, 659-664	21.8	37
345	Study of NOx selective catalytic reduction by ethanol over Ag/Al2O3 catalyst on a HD diesel engine. *Chemical Engineering Journal*, **2008**, 135, 195-201	14.7	37
344	In situ DRIFTS study of the selective reduction of NOx with alcohols over Ag/Al2O3 catalyst: Role of surface enolic species. *Applied Catalysis B: Environmental*, **2005**, 61, 107-113	21.8	37
343	Polymerization and decomposition of C60 on Pt(111) surfaces. *Physical Review B*, **1999**, 59, 8283-8291	3.3	37
342	Remarkable synergistic effect between {001} facets and surface F ions promoting hole migration on anatase TiO2. *Applied Catalysis B: Environmental*, **2017**, 207, 397-403	21.8	36
341	Oxygen vacancies on nanosized ceria govern the NOx storage capacity of NSR catalysts. *Catalysis Science and Technology*, **2016**, 6, 3950-3962	5.5	36
340	Removal of arsenate from water by using an Fe-Ce oxide adsorbent: effects of coexistent fluoride and phosphate. *Journal of Hazardous Materials*, **2010**, 179, 208-14	12.8	36
339	Hydrogen promotes the selective catalytic reduction of NOx by ethanol over Ag/Al2O3. *Catalysis Communications*, **2007**, 8, 187-192	3.2	36
338	Effect of Doping Metals on OMS-2/Al2O3 Catalysts for Plasma-Catalytic Removal of o-Xylene. *Journal of Physical Chemistry C*, **2016**, 120, 6136-6144	3.8	36
337	Selective catalytic reduction of NO with NH: opportunities and challenges of Cu-based small-pore zeolites. *National Science Review*, **2021**, 8, nwab010	10.8	36
336	Effects of NO2 Addition on the NH3-SCR over Small-Pore CuSSZ-13 Zeolites with Varying Cu Loadings. *Journal of Physical Chemistry C*, **2018**, 122, 25948-25953	3.8	36

335	Role of Carbonaceous Aerosols in Catalyzing Sulfate Formation. *ACS Catalysis*, **2018**, 8, 3825-3832	13.1	35
334	Effects of precursors for manganese-loaded Al2O3 catalysts on plasma-catalytic removal of o-xylene. *Chemical Engineering Journal*, **2016**, 288, 406-413	14.7	35
333	Significant enhancement in activity of Pd/TiO 2 catalyst for formaldehyde oxidation by Na addition. *Catalysis Today*, **2017**, 281, 412-417	5.3	35
332	Removal of bromate ion using powdered activated carbon. *Journal of Environmental Sciences*, **2010**, 22, 1846-53	6.4	35
331	Selective catalytic oxidation of ammonia from MAP decomposition. *Separation and Purification Technology*, **2007**, 58, 173-178	8.3	35
330	Hydrothermal aging alleviates the inhibition effects of NO2 on Cu-SSZ-13 for NH3-SCR. *Applied Catalysis B: Environmental*, **2020**, 275, 119105	21.8	35
329	Air Pollutant Correlations in China: Secondary Air Pollutant Responses to NOx and SO2 Control. *Environmental Science and Technology Letters*, **2020**, 7, 695-700	11	35
328	Alkali-Metal-Promoted Pt/TiO2 Opens a More Efficient Pathway to Formaldehyde Oxidation at Ambient Temperatures. *Angewandte Chemie*, **2012**, 124, 9766-9770	3.6	34
327	Degradation kinetics of anthracene by ozone on mineral oxides. *Atmospheric Environment*, **2010**, 44, 4446-4453	5.3	34
326	A simple strategy to improve Pd dispersion and enhance Pd/TiO2 catalytic activity for formaldehyde oxidation: The roles of surface defects. *Applied Catalysis B: Environmental*, **2021**, 282, 119540	21.8	34
325	Influence of relative humidity on heterogeneous kinetics of NO2 on kaolin and hematite. *Physical Chemistry Chemical Physics*, **2015**, 17, 19424-31	3.6	33
324	High-efficiency reduction of NO emission from diesel exhaust using a CeWO catalyst. *Catalysis Communications*, **2015**, 59, 226-228	3.2	33
323	Effect of preparation methods on the activity of VOx/CeO2 catalysts for the selective catalytic reduction of NOx with NH3. *Catalysis Science and Technology*, **2015**, 5, 389-396	5.5	33
322	Experimental and theoretical studies of surface nitrate species on Ag/Al2O3 using DRIFTS and DFT. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2008**, 71, 1446-51	4.4	33
321	Structure–activity relationship of surface hydroxyl groups during NO2 adsorption and transformation on TiO2 nanoparticles. *Environmental Science: Nano*, **2017**, 4, 2388-2394	7.1	32
320	In situ adsorption-catalysis system for the removal of o-xylene over an activated carbon supported Pd catalyst. *Journal of Environmental Sciences*, **2009**, 21, 985-90	6.4	32
319	Mesoporous transition alumina with uniform pore structure synthesized by alumisol spray pyrolysis. *Chemical Engineering Journal*, **2010**, 163, 133-142	14.7	32
318	Catalytic sterilization of Escherichia coli K 12 on Ag/Al2O3 surface. *Journal of Inorganic Biochemistry* , **2007**, 101, 817-23	4.2	32

317	Poisoning effect of sulphate on the selective catalytic reduction of NOx by C3H6 over Ag-Pd/Al2O3. *Journal of Molecular Catalysis A*, **2007**, 266, 166-172		32
316	Quantitative study of the NH3-SCR pathway and the active site distribution over CeWOx at low temperatures. *Journal of Catalysis*, **2019**, 369, 372-381	7.3	32
315	Is reducing new particle formation a plausible solution to mitigate particulate air pollution in Beijing and other Chinese megacities?. *Faraday Discussions*, **2021**, 226, 334-347	3.6	32
314	A case study of Asian dust storm particles: chemical composition, reactivity to SO2 and hygroscopic properties. *Journal of Environmental Sciences*, **2012**, 24, 62-71	6.4	31
313	The abatement of major pollutants in air and water by environmental catalysis. *Frontiers of Environmental Science and Engineering*, **2013**, 7, 302-325	5.8	31
312	Heterogeneous reactivity of carbonyl sulfide on □Al2O3 and □Al2O3. *Atmospheric Environment*, **2008**, 42, 960-969	5.3	31
311	An alumina-supported silver catalyst with high water tolerance for H2 assisted C3H6-SCR of NOx. *Applied Catalysis B: Environmental*, **2017**, 207, 60-71	21.8	30
310	Effects of Ce on catalytic combustion of methane over Pd-Pt/Al2O3 catalyst. *Journal of Environmental Sciences*, **2012**, 24, 507-11	6.4	30
309	Heterogeneous uptake of amines by citric acid and humic acid. *Environmental Science & Technology*, **2012**, 46, 11112-8	10.3	30
308	Heterogeneous reactions between NO2 and anthracene adsorbed on SiO2 and MgO. *Atmospheric Environment*, **2011**, 45, 917-924	5.3	30
307	Effects of temperature and reductant type on the process of NOx storage reduction over Pt/Ba/CeO2 catalysts. *Applied Catalysis B: Environmental*, **2011**, 104, 151-160	21.8	30
306	Effect of Co addition to Pt/Ba/Al2O3 system for NOx storage and reduction. *Applied Catalysis B: Environmental*, **2010**, 100, 19-30	21.8	30
305	Enhancement of aqueous sulfate formation by the coexistence of NO/NH under high ionic strengths in aerosol water. *Environmental Pollution*, **2019**, 252, 236-244	9.3	29
304	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	7.9	29
303	The effect of Fe species distribution and acidity of Fe-ZSM-5 on the hydrothermal stability and SO2 and hydrocarbons durability in NH3-SCR reaction. *Chinese Journal of Catalysis*, **2015**, 36, 649-656	11.3	29
302	Synergistic effect in the humidifying process of atmospheric relevant calcium nitrate, calcite and oxalic acid mixtures. *Atmospheric Environment*, **2012**, 50, 97-102	5.3	29
301	Glucose production from hydrolysis of cellulose over a novel silica catalyst under hydrothermal conditions. *Journal of Environmental Sciences*, **2012**, 24, 473-8	6.4	29
300	Effect of mineral dust on secondary organic aerosol yield and aerosol size in □pinene/NOx photo-oxidation. *Atmospheric Environment*, **2013**, 77, 781-789	5.3	29

299	Oxidative steam reforming of ethanol over Rh catalyst supported on Ce1−xLaxOy (x = 0.3) solid solution prepared by urea co-precipitation method. *Journal of Power Sources*, **2013**, 238, 57-64	8.9	29
298	XAFS Study on the Specific Deoxidation Behavior of Iron Titanate Catalyst for the Selective Catalytic Reduction of NOx with NH3. *ChemCatChem*, **2013**, 5, 3760-3769	5.2	29
297	Mechanism of heterogeneous reaction of carbonyl sulfide on magnesium oxide. *Journal of Physical Chemistry A*, **2007**, 111, 4333-9	2.8	29
296	Insight into the origin of sulfur tolerance of Ag/Al2O3 in the H2-C3H6-SCR of NOx. *Applied Catalysis B: Environmental*, **2019**, 244, 909-918	21.8	29
295	Significant source of secondary aerosol: formation from gasoline evaporative emissions in the presence of SO₂ and NH₃. *Atmospheric Chemistry and Physics*, **2019**, 19, 8063-8081	6.8	28
294	The utilization of physisorption analyzer for studying the hygroscopic properties of atmospheric relevant particles. *Journal of Physical Chemistry A*, **2010**, 114, 4232-7	2.8	28
293	Morphology-Dependent Catalytic Performance of NbOx/CeO2 Catalysts for Selective Catalytic Reduction of NOx with NH3. *Industrial & Engineering Chemistry Research*, **2018**, 57, 12736-12741	3.9	28
292	Secondary Organic Aerosol Formation from Ambient Air at an Urban Site in Beijing: Effects of OH Exposure and Precursor Concentrations. *Environmental Science & Technology*, **2018**, 52, 6834-6841	10.3	28
291	Water adsorption and hygroscopic growth of six anemophilous pollen species: the effect of temperature. *Atmospheric Chemistry and Physics*, **2019**, 19, 2247-2258	6.8	27
290	Effects of alkali and alkaline earth metals on Cu-SSZ-39 catalyst for the selective catalytic reduction of NOx with NH3. *Chemical Engineering Journal*, **2020**, 388, 124250	14.7	27
289	Activity enhancement of Pt/MnOx catalyst by novel -MnO2 for low-temperature CO oxidation: study of the CO-O2 competitive adsorption and active oxygen species. *Catalysis Science and Technology*, **2019**, 9, 347-354	5.5	26
288	Cu-exchanged RTH-type zeolites for NH3-selective catalytic reduction of NOx: Cu distribution and hydrothermal stability. *Catalysis Science and Technology*, **2019**, 9, 106-115	5.5	26
287	Nb-doped VOx/CeO2 catalyst for NH3-SCR of NOx at low temperatures. *RSC Advances*, **2015**, 5, 37675-37681	3.7	26
286	DFT studies on the heterogeneous oxidation of SO by oxygen functional groups on graphene. *Physical Chemistry Chemical Physics*, **2016**, 18, 31691-31697	3.6	26
285	Effect of TiO2 calcination temperature on the photocatalytic oxidation of gaseous NH3. *Journal of Environmental Sciences*, **2014**, 26, 673-82	6.4	26
284	Role of ammonia in forming secondary aerosols from gasoline vehicle exhaust. *Science China Chemistry*, **2015**, 58, 1377-1384	7.9	26
283	Comparative study of the effect of water on the heterogeneous reactions of carbonyl sulfide on the surface of -Al₂O₃ and MgO. *Atmospheric Chemistry and Physics*, **2009**, 9, 6273-6286	6.8	26
282	Remarkable influence of reductant structure on the activity of alumina-supported silver catalyst for the selective catalytic reduction of NOx. *Journal of Catalysis*, **2010**, 271, 343-350	7.3	26

281	Temperature dependence of the heterogeneous reaction of carbonyl sulfide on magnesium oxide. *Journal of Physical Chemistry A*, **2008**, 112, 2820-6	2.8	26
280	Competitive Reaction During Decomposition of Hexachlorobenzene Over Ultrafine CaFe Composite Oxide Catalyst. *Catalysis Letters*, **2007**, 119, 142-147	2.8	26
279	Heterogeneous oxidation of carbonyl sulfide on atmospheric particles and alumina. *Environmental Science & Technology*, **2005**, 39, 9637-42	10.3	26
278	Off-normal emission of N2 produced by desorption mediated reaction of NO on Pd(110) surface. *Surface Science*, **1994**, 315, L973-L976	1.8	26
277	A novel one-pot synthesized CuCe-SAPO-34 catalyst with high NH3-SCR activity and H2O resistance. *Catalysis Communications*, **2016**, 81, 20-23	3.2	26
276	Review of heterogeneous photochemical reactions of NOy on aerosol - A possible daytime source of nitrous acid (HONO) in the atmosphere. *Journal of Environmental Sciences*, **2013**, 25, 326-34	6.4	25
275	Differences in the reactivity of ammonium salts with methylamine. *Atmospheric Chemistry and Physics*, **2012**, 12, 4855-4865	6.8	25
274	Mechanism of heterogeneous oxidation of carbonyl sulfide on Al2O3: an in situ diffuse reflectance infrared fourier transform spectroscopy investigation. *Journal of Physical Chemistry B*, **2006**, 110, 3225-30	3.4	25
273	Promoting effect of microwave irradiation on CeO2-TiO2 catalyst for selective catalytic reduction of NO by NH3. *Journal of Rare Earths*, **2020**, 38, 59-69	3.7	25
272	Identification of a Facile Pathway for Dioxymethylene Conversion to Formate Catalyzed by Surface Hydroxyl on TiO2-Based Catalyst. *ACS Catalysis*, **2020**, 10, 9706-9715	13.1	25
271	Promotion effect of H2 on ethanol oxidation and NOx reduction with ethanol over Ag/Al2O3 catalyst. *Environmental Science & Technology*, **2015**, 49, 481-8	10.3	24
270	Adsorptive removal of toluene and dichloromethane from humid exhaust on MFI, BEA and FAU zeolites: An experimental and theoretical study. *Chemical Engineering Journal*, **2020**, 394, 124986	14.7	24
269	Mechanism of highly selective low temperature PROX reaction of CO in H2: Oxidation of CO via HCOO with OH. *Catalysis Today*, **2011**, 175, 467-470	5.3	24
268	Selective catalytic reduction of NOx with C3H6 over an Ag/Al2O3 catalyst with a small quantity of noble metal. *Catalysis Today*, **2004**, 93-95, 783-789	5.3	24
267	Specific Role of Potassium in Promoting Ag/Al2O3 for Catalytic Oxidation of Formaldehyde at Low Temperature. *Journal of Physical Chemistry C*, **2018**, 122, 27331-27339	3.8	24
266	Shape-controlled synthesis of Pd nanocrystals with exposed {110} facets and their catalytic applications. *Catalysis Today*, **2019**, 327, 28-36	5.3	23
265	Laboratory study on the hygroscopic behavior of external and internal C2-C4 dicarboxylic acid-NaCl mixtures. *Environmental Science & Technology*, **2013**, 47, 10381-8	10.3	23
264	An XAFS study on the specific microstructure of active species in iron titanate catalyst for NH3-SCR of NOx. *Catalysis Today*, **2013**, 201, 131-138	5.3	23

263	A cyclic reaction pathway triggered by ammonia for the selective catalytic reduction of NOx by ethanol over Ag/Al2O3. *Applied Catalysis B: Environmental*, **2013**, 136-137, 103-111	21.8	23
262	The Synergistic Role of Sulfuric Acid, Bases, and Oxidized Organics Governing New-Particle Formation in Beijing. *Geophysical Research Letters*, **2021**, 48, e2020GL091944	4.9	23
261	Facile synthesis of Ag-modified manganese oxide for effective catalytic ozone decomposition. *Journal of Environmental Sciences*, **2019**, 80, 159-168	6.4	23
260	Heterogeneous and multiphase formation pathways of gypsum in the atmosphere. *Physical Chemistry Chemical Physics*, **2013**, 15, 19196-204	3.6	22
259	Discerning the Role of Ag□□Al Entities on Ag/□Al2O3 Surface in NOx Selective Reduction by Ethanol. *Journal of Physical Chemistry C*, **2015**, 119, 3132-3142	3.8	22
258	Complete catalytic oxidation of o-xylene over CeO2 nanocubes. *Journal of Environmental Sciences*, **2011**, 23, 160-5	6.4	22
257	Experimental and theoretical study of hydrogen thiocarbonate for heterogeneous reaction of carbonyl sulfide on magnesium oxide. *Journal of Physical Chemistry A*, **2009**, 113, 3387-94	2.8	22
256	Effect of soot microstructure on its ozonization reactivity. *Journal of Chemical Physics*, **2012**, 137, 084507	3.9	22
255	Resistance to SO2 poisoning of V2O5/TiO2-PILC catalyst for the selective catalytic reduction of NO by NH3. *Chinese Journal of Catalysis*, **2016**, 37, 888-897	11.3	21
254	Synergistic Effect of TiO2□SiO2 in Ag/Si□Ti Catalyst for the Selective Catalytic Oxidation of Ammonia. *Industrial & Engineering Chemistry Research*, **2018**, 57, 11903-11910	3.9	21
253	Hydrothermal Deactivation of Fe-ZSM-5 Prepared by Different Methods for the Selective Catalytic Reduction of NOx with NH3. *Chinese Journal of Catalysis*, **2012**, 33, 454-464	11.3	21
252	Bactericidal activity of a Ce-promoted Ag/AlPO4 catalyst using molecular oxygen in water. *Environmental Science & Technology*, **2008**, 42, 1699-704	10.3	21
251	Evidence for the formation, isomerization and decomposition of organo-nitrite and -nitro species during the NOx reduction by C3H6 on Ag/Al2O3. *Applied Catalysis B: Environmental*, **2007**, 75, 298-302	21.8	21
250	Catalytic performance of Ag/Al2O3-C2H5OH-Cu/Al2O3 system for the removal of NOx from diesel engine exhaust. *Environmental Pollution*, **2007**, 147, 415-21	9.3	21
249	Catalytic inactivation of SARS coronavirus, and yeast on solid surface. *Catalysis Communications*, **2004**, 5, 170-172	3.2	21
248	Enhancing Oxygen Vacancies of Ce-OMS-2 via Optimized Hydrothermal Conditions to Improve Catalytic Ozone Decomposition. *Industrial & Engineering Chemistry Research*, **2020**, 59, 118-128	3.9	21
247	Theory and practice of metal oxide catalyst design for the selective catalytic reduction of NO with NH3. *Catalysis Today*, **2021**, 376, 292-301	5.3	21
246	Activity of Selective Catalytic Reduction of NO over V2O5/TiO2 Catalysts Preferentially Exposed Anatase {001} and {101} Facets. *Catalysis Letters*, **2017**, 147, 934-945	2.8	20

245	Challenges and opportunities for manganese oxides in low-temperature selective catalytic reduction of NOx with NH3: H2O resistance ability. *Journal of Solid State Chemistry*, **2020**, 289, 121464	3.3	20
244	High Pt utilization efficiency of electrocatalysts for oxygen reduction reaction in alkaline media. *Catalysis Today*, **2019**, 332, 101-108	5.3	20
243	Excellent antimicrobial properties of silver-loaded mesoporous silica SBA-15. *Journal of Applied Microbiology*, **2014**, 116, 1106-18	4.7	20
242	Flower-like tungsten oxide particles: synthesis, characterization and dimethyl methylphosphonate sensing properties. *Analytica Chimica Acta*, **2010**, 675, 36-41	6.6	20
241	The Mechanism for the Selective Oxidation of CO Enhanced by H2O on a Novel PROC Catalyst. *Catalysis Letters*, **2008**, 120, 210-214	2.8	20
240	FTIR, TPD and DFT studies of intermediates on Ag/Al2O3 during the selective catalytic reduction of NO by C2H5OH. *Catalysis Today*, **2004**, 93-95, 805-809	5.3	20
239	Novel CeMnaOx catalyst for highly efficient catalytic decomposition of ozone. *Applied Catalysis B: Environmental*, **2020**, 264, 118498	21.8	20
238	Secondary organic aerosol formation from the OH-initiated oxidation of guaiacol under different experimental conditions. *Atmospheric Environment*, **2019**, 207, 30-37	5.3	19
237	A Low-Temperature Route Triggered by Water Vapor during the Ethanol-SCR of NOx over Ag/Al2O3. *ACS Catalysis*, **2018**, 8, 2699-2708	13.1	19
236	Nitrogen deposition but not climate warming promotes Deyeuxia angustifolia encroachment in alpine tundra of the Changbai Mountains, Northeast China. *Science of the Total Environment*, **2016**, 544, 85-93	10.2	19
235	A common feature of H2-assisted HC-SCR over Ag/Al2O3. *Catalysis Science and Technology*, **2014**, 4, 1239-1245	5.3	19
234	Decreasing effect and mechanism of FeSO4 seed particles on secondary organic aerosol in □pinene photooxidation. *Environmental Pollution*, **2014**, 193, 88-93	9.3	19
233	Distinct NO Effects on Cu-SSZ-13 and Cu-SSZ-39 in the Selective Catalytic Reduction of NO with NH. *Environmental Science & Technology*, **2020**, 54, 15499-15506	10.3	19
232	Hydrothermal Stability of CeO-WO-ZrO Mixed Oxides for Selective Catalytic Reduction of NOx by NH. *Environmental Science & Technology*, **2018**, 52, 11769-11777	10.3	19
231	Important role of aromatic hydrocarbons in SOA formation from unburned gasoline vapor. *Atmospheric Environment*, **2019**, 201, 101-109	5.3	18
230	Parameterization of heterogeneous reaction of SO to sulfate on dust with coexistence of NH and NO under different humidity conditions. *Atmospheric Environment*, **2019**, 208, 133-140	5.3	18
229	The promotional effect of H2 reduction treatment on the low-temperature NH3-SCR activity of Cu/SAPO-18. *Applied Surface Science*, **2019**, 483, 536-544	6.7	18
228	Heterogeneous Kinetics of cis-Pinonic Acid with Hydroxyl Radical under Different Environmental Conditions. *Journal of Physical Chemistry A*, **2015**, 119, 6583-93	2.8	18

227	Effects of SO2 on Cu-SSZ-39 catalyst for the selective catalytic reduction of NOx with NH3. *Catalysis Science and Technology*, **2020**, 10, 1256-1263	5.5	18
226	Continuous and comprehensive atmospheric observations in Beijing: a station to understand the complex urban atmospheric environment. *Big Earth Data*, **2020**, 4, 295-321	4.1	18
225	The balance of acidity and redox capability over modified CeO catalyst for the selective catalytic reduction of NO with NH. *Journal of Environmental Sciences*, **2019**, 79, 273-279	6.4	18
224	A Nonoxide Catalyst System Study: Alkali Metal-Promoted Pt/AC Catalyst for Formaldehyde Oxidation at Ambient Temperature. *ACS Catalysis*, **2021**, 11, 456-465	13.1	18
223	Improvement of low-temperature catalytic activity over hierarchical Fe-Beta catalysts for selective catalytic reduction of NOx with NH3. *Chinese Chemical Letters*, **2019**, 30, 867-870	8.1	17
222	Importance of controllable Al sites in CHA framework by crystallization pathways for NH3-SCR reaction. *Applied Catalysis B: Environmental*, **2020**, 277, 119193	21.8	17
221	Insight into the Role of Pd State on Pd-Based Catalysts in o-Xylene Oxidation at Low Temperature. *ChemCatChem*, **2018**, 10, 998-1004	5.2	17
220	Selective catalytic reduction of NOx by NH3 for heavy-duty diesel vehicles. *Chinese Journal of Catalysis*, **2014**, 35, 1438-1445	11.3	17
219	Effects of Adding CeO2 to Ag/Al2O3 Catalyst for Ammonia Oxidation at Low Temperatures. *Chinese Journal of Catalysis*, **2011**, 32, 727-735	11.3	17
218	DRIFTS investigation and DFT calculation of the adsorption of CO on Pt/TiO2, Pt/CeO2 and FeOx/Pt/CeO2. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2008**, 71, 1193-8	4.4	17
217	A comparison between the vacuum ultraviolet photoionization time-of-flight mass spectra and the GC/MS total ion chromatograms of polycyclic aromatic hydrocarbons contained in coal soot and multi-component PAH particles. *International Journal of Mass Spectrometry*, **2008**, 274, 64-69	1.9	17
216	Control of the growth of ordered C 60 films by chemical modification of Pt(111) surfaces. *Thin Solid Films*, **1999**, 348, 30-37	2.2	17
215	Detrimental role of residual surface acid ions on ozone decomposition over Ce-modified MnO under humid conditions. *Journal of Environmental Sciences*, **2020**, 91, 43-53	6.4	17
214	Polytetrafluoroethylene modifying: A low cost and easy way to improve the H2O resistance ability over MnOx for low-temperature NH3-SCR. *Journal of Environmental Chemical Engineering*, **2019**, 7, 103044	6.8	16
213	The Keggin Structure: An Important Factor in Governing NH3SCR Activity Over the V2O5MoO3/TiO2 Catalyst. *Catalysis Letters*, **2018**, 148, 1228-1235	2.8	16
212	Alkali resistance promotion of Ce-doped vanadium-titanic-based NH-SCR catalysts. *Journal of Environmental Sciences*, **2018**, 73, 155-161	6.4	16
211	Silver Valence State Determines the Water Tolerance of Ag/Al2O3 for the H2C3H6SCR of NOx. *Journal of Physical Chemistry C*, **2018**, 122, 670-680	3.8	16
210	The photoenhanced aging process of soot by the heterogeneous ozonization reaction. *Physical Chemistry Chemical Physics*, **2016**, 18, 24401-7	3.6	16

209	Role of NH in the Heterogeneous Formation of Secondary Inorganic Aerosols on Mineral Oxides. *Journal of Physical Chemistry A*, **2018**, 122, 6311-6320	2.8	16
208	Influence of atmospheric conditions on sulfuric acid-dimethylamine-ammonia-based new particle formation. *Chemosphere*, **2020**, 245, 125554	8.4	16
207	Superior Oxidative Dehydrogenation Performance toward NH Determines the Excellent Low-Temperature NH-SCR Activity of Mn-Based Catalysts. *Environmental Science & Technology*, **2021**, 55, 6995-7003	10.3	16
206	Investigation into the Enhanced Catalytic Oxidation of o-Xylene over MOF-Derived Co3O4 with Different Shapes: The Role of Surface Twofold-Coordinate Lattice Oxygen (O2f). *ACS Catalysis*, **2021**, 11, 6614-6625	13.1	16
205	Investigation of Suitable Templates for One-Pot-Synthesized Cu-SAPO-34 in NO Abatement from Diesel Vehicle Exhaust. *Environmental Science & Technology*, **2020**, 54, 7870-7878	10.3	15
204	Experimental and DFT study of the adsorption of N2O on transition ion-exchanged ZSM-5. *Catalysis Today*, **2019**, 327, 177-181	5.3	15
203	The effect of water on the heterogeneous reactions of SO2 and NH3 on the surfaces of □Fe2O3 and □Al2O3. *Environmental Science: Nano*, **2019**, 6, 2749-2758	7.1	15
202	Mechanism of the H2 Effect on NH3-Selective Catalytic Reduction over Ag/Al2O3: Kinetic and Diffuse Reflectance Infrared Fourier Transform Spectroscopy Studies. *ACS Catalysis*, **2019**, 9, 10489-10498	13.1	15
201	Low CO content hydrogen production from oxidative steam reforming of ethanol over CuO-CeO2 catalysts at low-temperature. *Journal of Energy Chemistry*, **2013**, 22, 861-868	12	15
200	Promotion effect of cerium doping on iron□titanium composite oxide catalysts for selective catalytic reduction of NOx with NH3. *Catalysis Science and Technology*, **2020**, 10, 648-657	5.5	15
199	Influence of sulfur in fuel on the properties of diffusion flame soot. *Atmospheric Environment*, **2016**, 142, 383-392	5.3	15
198	Adsorption-Induced Active Vanadium Species Facilitate Excellent Performance in Low-Temperature Catalytic NO Abatement. *Journal of the American Chemical Society*, **2021**, 143, 10454-10461	16.4	15
197	Ozone and SOA formation potential based on photochemical loss of VOCs during the Beijing summer. *Environmental Pollution*, **2021**, 285, 117444	9.3	15
196	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	6.8	14
195	Remarkable promotion effect of trace sulfation on OMS-2 nanorod catalysts for the catalytic combustion of ethanol. *Journal of Environmental Sciences*, **2015**, 35, 69-75	6.4	14
194	Antimicrobial activity of silver loaded MnO2 nanomaterials with different crystal phases against Escherichia coli. *Journal of Environmental Sciences*, **2016**, 41, 112-120	6.4	14
193	DFT and DRIFTS Studies on the Adsorption of Acetate on the Ag/Al2O3 Catalyst. *Journal of Physical Chemistry C*, **2008**, 112, 6933-6938	3.8	14
192	Oxygen Poisoning Mechanism of Catalytic Hydrolysis of OCS over Al2O3 at Room Temperature. *Acta Physico-chimica Sinica*, **2007**, 23, 997-1002		14

191	Activation of Pt/TiO2 Catalysts by Structural Transformation of Pt-Sites. *Catalysis Letters*, **2006**, 107, 1-4	2.8	14
190	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	6.8	14
189	Unprecedented Ambient Sulfur Trioxide (SO) Detection: Possible Formation Mechanism and Atmospheric Implications. *Environmental Science and Technology Letters*, **2020**, 7, 809-818	11	14
188	Recent advances in three-way catalysts of natural gas vehicles. *Catalysis Science and Technology*, **2020**, 10, 6407-6419	5.5	14
187	Differences of the oxidation process and secondary organic aerosol formation at low and high precursor concentrations. *Journal of Environmental Sciences*, **2019**, 79, 256-263	6.4	14
186	Co-function mechanism of multiple active sites over Ag/TiO2 for formaldehyde oxidation. *Applied Catalysis B: Environmental*, **2021**, 282, 119543	21.8	14
185	A CeO2/ZrO2-TiO2 Catalyst for the Selective Catalytic Reduction of NOx with NH3. *Catalysts*, **2018**, 8, 592	4	14
184	Contrary Role of HO and O in the Kinetics of Heterogeneous Photochemical Reactions of SO on TiO. *Journal of Physical Chemistry A*, **2019**, 123, 1311-1318	2.8	13
183	Enhancement of secondary organic aerosol formation and its oxidation state by SO₂ during photooxidation of 2-methoxyphenol. *Atmospheric Chemistry and Physics*, **2019**, 19, 2687-2700	6.8	13
182	Hydrothermal Stability Enhancement of Al-Rich Cu-SSZ-13 for NH3 Selective Catalytic Reduction Reaction by Ion Exchange with Cerium and Samarium. *Industrial & Engineering Chemistry Research*, **2020**, 59, 6416-6423	3.9	13
181	Precisely controlled synthesis of □/□MnO materials by adding Zn(acac) as a phase transformation-inducing agent. *Chemical Communications*, **2018**, 54, 1477-1480	5.8	13
180	DRIFT Study on Promotion Effect of the Keggin Structure over V2O5-MoO3/TiO2 Catalysts for Low Temperature NH3-SCR Reaction. *Catalysts*, **2018**, 8, 143	4	13
179	Heterogeneous photochemical reaction of ozone with anthracene adsorbed on mineral dust. *Atmospheric Environment*, **2013**, 72, 165-170	5.3	13
178	Conformational analysis and comparison between theoretical and experimental vibration spectra for isocyanate species on Ag/Al2O3 catalyst. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2005**, 61, 1233-8	4.4	13
177	Water Effect on Preparation of Ag/Al2O3 Catalyst for Reduction of NOx by Ethanol. *Journal of Physical Chemistry C*, **2016**, 120, 24294-24301	3.8	13
176	Enhancement of low-temperature NH3-SCR catalytic activity and H2O & SO2 resistance over commercial V2O5-MoO3/TiO2 catalyst by high shear-induced doping of expanded graphite. *Catalysis Today*, **2021**, 376, 302-310	5.3	13
175	Particle growth with photochemical age from new particle formation to haze in the winter of Beijing, China. *Science of the Total Environment*, **2021**, 753, 142207	10.2	13
174	Influence of metal-mediated aerosol-phase oxidation on secondary organic aerosol formation from the ozonolysis and OH-oxidation of □pinene. *Scientific Reports*, **2017**, 7, 40311	4.9	12

173	Significant enhancement in water resistance of Pd/Al2O3 catalyst for benzene oxidation by Na addition. *Chinese Chemical Letters*, **2019**, 30, 1450-1454	8.1	12
172	Influence of functional groups on toxicity of carbon nanomaterials. *Atmospheric Chemistry and Physics*, **2019**, 19, 8175-8187	6.8	12
171	Heterogeneous uptake of carbonyl sulfide onto kaolinite within a temperature range of 220–330 K. *Journal of Geophysical Research*, **2010**, 115,		12
170	Heterogeneous reactions of carbonyl sulfide on mineral oxides: mechanism and kinetics study. *Atmospheric Chemistry and Physics*, **2010**, 10, 10335-10344	6.8	12
169	Theoretical and experimental analysis on vibrational spectra of formate species adsorbed on Cu–Al2O3 catalyst. *Computational and Theoretical Chemistry*, **2008**, 857, 38-43		12
168	Novel Ag–Pd/Al2O3–SiO2 for lean NOx reduction by C3H6 with high tolerance of SO2. *Catalysis Communications*, **2005**, 6, 195-200	3.2	12
167	Mechanistic Study of Selective Catalytic Reduction of NOx with C2H5OH and CH3OCH3 over Ag/Al2O3 by in Situ DRIFTS. *Chinese Journal of Catalysis*, **2006**, 27, 993-997	11.3	12
166	Effects of SO and HO on low-temperature NO conversion over F-VO-WO/TiO catalysts. *Journal of Environmental Sciences*, **2020**, 90, 253-261	6.4	12
165	Understanding the knowledge gaps between air pollution controls and health impacts including pathogen epidemic. *Environmental Research*, **2020**, 189, 109949	7.9	12
164	Tuning the Chemical State of Silver on Ag-Mn Catalysts to Enhance the Ozone Decomposition Performance. *Environmental Science & Technology*, **2020**, 54, 11566-11575	10.3	12
163	Single atom Fe in favor of carbon disulfide (CS2) adsorption and thus the removal efficiency. *Separation and Purification Technology*, **2021**, 258, 118086	8.3	12
162	Molecular Insights into NO-Promoted Sulfate Formation on Model TiO Nanoparticles with Different Exposed Facets. *Environmental Science & Technology*, **2018**, 52, 14110-14118	10.3	12
161	Elimination of formaldehyde over Cu-Al2O3 catalyst at room temperature. *Journal of Environmental Sciences*, **2005**, 17, 429-32	6.4	12
160	Effects of SO2 on the low temperature selective catalytic reduction of NO by NH3 over CeO2-V2O5-WO3/TiO2 catalysts. *Frontiers of Environmental Science and Engineering*, **2017**, 11, 1	5.8	11
159	Enhanced Oxidation of Tetracycline by Permanganate via the Alkali-Induced Alteration of the Highest Occupied Molecular Orbital and the Electrostatic Potential. *Industrial & Engineering Chemistry Research*, **2017**, 56, 4703-4708	3.9	11
158	SSZ-13 Synthesized by Solvent-Free Method: A Potential Candidate for NH3-SCR Catalyst with High Activity and Hydrothermal Stability. *Industrial & Engineering Chemistry Research*, **2019**, 58, 5397-5403	3.9	11
157	Secondary aerosol formation and oxidation capacity in photooxidation in the presence of Al2O3 seed particles and SO2. *Science China Chemistry*, **2015**, 58, 1426-1434	7.9	11
156	Chemical characterization of submicron aerosol in summertime Beijing: A case study in southern suburbs in 2018. *Chemosphere*, **2020**, 247, 125918	8.4	11

155	Impacts of SO, Relative Humidity, and Seed Acidity on Secondary Organic Aerosol Formation in the Ozonolysis of Butyl Vinyl Ether. *Environmental Science & Technology*, **2019**, 53, 8845-8853	10.3	11
154	NOx selective catalytic reduction by ammonia over Cu-ETS-10 catalysts. *Chinese Journal of Catalysis*, **2014**, 35, 1030-1035	11.3	11
153	Heterogeneous reaction of NO with soot at different relative humidity. *Environmental Science and Pollution Research*, **2017**, 24, 21248-21255	5.1	11
152	Laboratory study on OH-initiated degradation kinetics of dehydroabietic acid. *Physical Chemistry Chemical Physics*, **2015**, 17, 10953-62	3.6	11
151	An integrated system of biological and catalytic oxidation for the removal of o-xylene from exhaust. *Catalysis Today*, **2007**, 126, 338-344	5.3	11
150	Density functional theory (DFT) and DRIFTS investigations of the formation and adsorption of enolic species on the Ag/Al2O3 surface. *Journal of Physical Chemistry B*, **2005**, 109, 13291-5	3.4	11
149	Spectroscopic evidence for the formation of CHx species in the hydrogenation of carbidic carbon on Ni(100). *Catalysis Letters*, **1992**, 16, 407-412	2.8	11
148	Design of High-Performance Iron–Niobium Composite Oxide Catalysts for NH3-SCR: Insights into the Interaction between Fe and Nb. *ACS Catalysis*, **2021**, 11, 9825-9836	13.1	11
147	The way to enhance the thermal stability of V2O5-based catalysts for NH3-SCR. *Catalysis Today*, **2020**, 355, 408-414	5.3	11
146	Preparation and emission characteristics of ethanol-diesel fuel blends. *Journal of Environmental Sciences*, **2004**, 16, 793-6	6.4	11
145	Role of dimethyl ether in incipient soot formation in premixed ethylene flames. *Combustion and Flame*, **2020**, 216, 271-279	5.3	10
144	Distinct potential aerosol masses under different scenarios of transport at a suburban site of Beijing. *Journal of Environmental Sciences*, **2016**, 39, 52-61	6.4	10
143	Experimental and density functional theory study of the adsorption of N2O on ion-exchanged ZSM-5: part II. The adsorption of N2O on main-group ion-exchanged ZSM-5. *Journal of Environmental Sciences*, **2011**, 23, 681-6	6.4	10
142	Coating of γ-Al2O3 on the stainless steel substrate by electrophoretic deposition method. *Journal of Environmental Sciences*, **2009**, 21 Suppl 1, S112-5	6.4	10
141	Hydrogenation of carbidic carbon on the Ni(100) surface. *Surface Science*, **1997**, 376, 310-318	1.8	10
140	Heterogeneous oxidation of carbonyl sulfide on mineral oxides. *Science Bulletin*, **2007**, 52, 2063-2071		10
139	Study on Effect of SO2 on the Selective Catalytic Reduction of NOx with Propene over Ag/Al2O3 by in Situ DRIFTS. *Chinese Journal of Catalysis*, **2006**, 27, 403-407	11.3	10
138	Effect of treatment atmosphere on the vanadium species of V/TiO2 catalysts for the selective catalytic reduction of NOx with NH3. *Catalysis Science and Technology*, **2020**, 10, 311-314	5.5	10

137	Unraveling the Mechanism of Ammonia Selective Catalytic Oxidation on Ag/Al2O3 Catalysts by Operando Spectroscopy. *ACS Catalysis*, **2021**, 11, 5506-5516	13.1	10
136	Cesium as a dual function promoter in Co/Ce-Sn catalyst for soot oxidation. *Applied Catalysis B: Environmental*, **2021**, 285, 119850	21.8	10
135	Electrochemical oxidation of gaseous benzene on a Sb-SnO/foam Ti nano-coating electrode in all-solid cell. *Chemosphere*, **2019**, 217, 780-789	8.4	10
134	Effect of support preparation with different concentration precipitant on the NOx storage performance of Pt/BaO/CeO2 catalysts. *Catalysis Today*, **2020**, 339, 135-147	5.3	10
133	Investigation of the common intermediates over Fe-ZSM-5 in NH-SCR reaction at low temperature by in situ DRIFTS. *Journal of Environmental Sciences*, **2020**, 94, 32-39	6.4	10
132	Facile homogeneous precipitation method to prepare MnO2 with high performance in catalytic oxidation of ethyl acetate. *Chemical Engineering Journal*, **2021**, 417, 129246	14.7	10
131	Unexpected increase in low-temperature NH3-SCR catalytic activity over Cu-SSZ-39 after hydrothermal aging. *Applied Catalysis B: Environmental*, **2021**, 294, 120237	21.8	10
130	Hydrogen production from oxidative steam reforming of ethanol over Ir catalysts supported on Ce□a solid solution. *International Journal of Hydrogen Energy*, **2017**, 42, 11177-11186	6.7	9
129	Acidic permanganate oxidation of sulfamethoxazole by stepwise electron-proton transfer. *Chemosphere*, **2019**, 222, 71-82	8.4	9
128	A Comprehensive Study about the Hygroscopic Behavior of Mixtures of Oxalic Acid and Nitrate Salts: Implication for the Occurrence of Atmospheric Metal Oxalate Complex. *ACS Earth and Space Chemistry*, **2019**, 3, 1216-1225	3.2	9
127	The effect of crystallite size on low-temperature hydrothermal stability of Cu-SAPO-34. *Catalysis Science and Technology*, **2020**, 10, 2855-2863	5.5	9
126	Water Promotes the Oxidation of SO by O over Carbonaceous Aerosols. *Environmental Science & Technology*, **2020**, 54, 7070-7077	10.3	9
125	Effect of sulfur poisoning on Co3O4/CeO2 composite oxide catalyst for soot combustion. *Chinese Journal of Catalysis*, **2014**, 35, 1504-1510	11.3	9
124	Catalytic oxidation of CO on metals involving an ionic process in the presence of H2O: the role of promoting materials. *RSC Advances*, **2015**, 5, 949-959	3.7	9
123	Hygroscopicity of particles generated from photooxidation of alpha-pinene under different oxidation conditions in the presence of sulfate seed aerosols. *Journal of Environmental Sciences*, **2014**, 26, 129-39	6.4	9
122	Disparate effects of SO2 on the selective catalytic reduction of NO by C2H5OH and IPA over Ag/Al2O3. *Catalysis Communications*, **2006**, 7, 657-661	3.2	9
121	Reaction of C60 with oxygen adatoms on Pt(111). *Journal of Chemical Physics*, **1999**, 110, 1173-1179	3.9	9
120	Formation of CHx species on a Ni(100) surface by the hydrogenation of carbidic carbon. *Surface Science*, **1993**, 283, 117-120	1.8	9

119	Interfacial structure-governed SO2 resistance of Cu/TiO2 catalysts in the catalytic oxidation of CO. *Catalysis Science and Technology*, **2020**, 10, 1661-1674	5.5	9
118	Recent Progress on Improving Low-Temperature Activity of Vanadia-Based Catalysts for the Selective Catalytic Reduction of NOx with Ammonia. *Catalysts*, **2020**, 10, 1421	4	9
117	Comprehensive Study about the Photolysis of Nitrates on Mineral Oxides. *Environmental Science & Technology*, **2021**, 55, 8604-8612	10.3	9
116	Effect of relative humidity on SOA formation from aromatic hydrocarbons: Implications from the evolution of gas- and particle-phase species. *Science of the Total Environment*, **2021**, 773, 145015	10.2	9
115	Ozonolysis of Trimethylamine Exchanged with Typical Ammonium Salts in the Particle Phase. *Environmental Science & Technology*, **2016**, 50, 11076-11084	10.3	9
114	Use of rare earth elements in single-atom site catalysis: A critical review Commemorating the 100th anniversary of the birth of Academician Guangxian Xu. *Journal of Rare Earths*, **2021**, 39, 233-242	3.7	9
113	The adsorption and oxidation of SO2 on MgO surface: experimental and DFT calculation studies. *Environmental Science: Nano*, **2020**, 7, 1092-1101	7.1	8
112	Quantitative determination of the Cu species, acid sites and NH3-SCR mechanism on Cu-SSZ-13 and H-SSZ-13 at low temperatures. *Catalysis Science and Technology*, **2020**, 10, 1135-1150	5.5	8
111	Oxidation Potential Reduction of Carbon Nanomaterials during Atmospheric-Relevant Aging: Role of Surface Coating. *Environmental Science & Technology*, **2019**, 53, 10454-10461	10.3	8
110	Fabrication of nanofibrous A- or B-sites substituted LaCoO3 perovskites with macroscopic structures and their catalytic applications. *Materials Research Bulletin*, **2014**, 51, 295-301	5.1	8
109	Role of aggregated Fe oxo species in N2O decomposition over Fe/ZSM-5. *Chinese Journal of Catalysis*, **2014**, 35, 1972-1981	11.3	8
108	Passive NO Adsorption on Hydrothermally Aged Pd-Based Small-Pore Zeolites. *Topics in Catalysis*, **2020**, 63, 944-953	2.3	8
107	Secondary Organic Aerosol Formation Potential from Ambient Air in Beijing: Effects of Atmospheric Oxidation Capacity at Different Pollution Levels. *Environmental Science & Technology*, **2021**, 55, 4565-4572	10.3	8
106	Role of silver species in H2-NH3-SCR of NOx over Ag/Al2O3 catalysts: Operando spectroscopy and DFT calculations. *Journal of Catalysis*, **2021**, 395, 1-9	7.3	8
105	Tuning the fill percentage in the hydrothermal synthesis process to increase catalyst performance for ozone decomposition. *Journal of Environmental Sciences*, **2020**, 87, 60-70	6.4	8
104	Introducing tin to develop ternary metal oxides with excellent hydrothermal stability for NH3 selective catalytic reduction of NOx. *Applied Catalysis B: Environmental*, **2021**, 291, 120125	21.8	8
103	Adsorption states of typical intermediates on Ag/Al2O3 catalyst employed in the selective catalytic reduction of NOx by ethanol. *Chinese Journal of Catalysis*, **2015**, 36, 1312-1320	11.3	7
102	Response of soil methane uptake to simulated nitrogen deposition and grazing management across three types of steppe in Inner Mongolia, China. *Science of the Total Environment*, **2018**, 612, 799-808	10.2	7

101	Synthesis and herbicidal activities of 2-methylpropan-2-aminium O-methyl 1-(substituted phenoxyacetoxy)alkylphosphonates. *Chemical Research in Chinese Universities*, **2014**, 30, 82-86	2.2	7
100	A direct sulfation method for introducing the transition metal cation Co2+ into ZrO2 with little change in the Br□sted acid sites. *Journal of Catalysis*, **2011**, 279, 301-309	7.3	7
99	A CO-Tolerant Hydrogen Fuel Cell System Designed by Combining with an Extremely Active Pt/CNT Catalyst. *Catalysis Letters*, **2009**, 127, 148-151	2.8	7
98	A comparative investigation of NdSrCu1-xCo(x)O4-delta and Sm1.8Ce0.2Cu1-xCo(x)O4-delta (x: 0-0.4) for NO decomposition. *Journal of Environmental Sciences*, **2010**, 22, 448-53	6.4	7
97	Effect of SO2 on the performance of Ag-Pd/Al2O3 for the selective catalytic reduction of NOx with C2H5OH. *Journal of Environmental Sciences*, **2006**, 18, 973-8	6.4	7
96	Catalytic Decomposition of N2O over Co-M(M=La, Ce, Fe, Mn, Cu, Cr) Composite Oxide Catalysts. *Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica*, **2007**, 23, 664-670	3.8	7
95	Insights into Designing Photocatalysts for Gaseous Ammonia Oxidation under Visible Light. *Environmental Science & Technology*, **2020**, 54, 10544-10550	10.3	7
94	Improving the catalytic performance of ozone decomposition over Pd-Ce-OMS-2 catalysts under harsh conditions. *Catalysis Science and Technology*, **2020**, 10, 7671-7680	5.5	7
93	Reaction Pathways of the Selective Catalytic Reduction of NO with NH on the □FeO(012) Surface: a Combined Experimental and DFT Study. *Environmental Science & Technology*, **2021**,	10.3	7
92	Effects of NO₂ and C₃H₆ on the heterogeneous oxidation of SO₂ on TiO₂ in the presence or absence of UV□Vis irradiation. *Atmospheric Chemistry and Physics*, **2019**, 19, 14777-14790	6.8	7
91	Significant promotion effect of the rutile phase on VO/TiO catalysts for NH-SCR. *Chemical Communications*, **2021**, 57, 355-358	5.8	7
90	Synergistic Effects of Multicomponents Produce Outstanding Soot Oxidation Activity in a Cs/Co/MnO Catalyst. *Environmental Science & Technology*, **2021**, 55, 240-248	10.3	7
89	Measurement report: Effects of photochemical aging on the formation and evolution of summertime secondary aerosol in Beijing. *Atmospheric Chemistry and Physics*, **2021**, 21, 1341-1356	6.8	7
88	Microkinetic study of NO oxidation, standard and fast NH3-SCR on CeWOx at low temperatures. *Chemical Engineering Journal*, **2021**, 423, 130128	14.7	7
87	Effects of ultrasonic treatment on dithiothreitol (DTT) assay measurements for carbon materials. *Journal of Environmental Sciences*, **2019**, 84, 51-58	6.4	6
86	Atomic-scale insights into zeolite-based catalysis in NO decomposition. *Science of the Total Environment*, **2019**, 673, 266-271	10.2	6
85	Effect of aluminium dust on secondary organic aerosol formation in m-xylene/NO x photo-oxidation. *Science China Earth Sciences*, **2015**, 58, 245-254	4.6	6
84	Promoting Effect of Organic Ligand on the Performance of Ceria for the Selective Catalytic Reduction of NO by NH3. *ChemistrySelect*, **2018**, 3, 2683-2691	1.8	6

83	Electrochemical oxidation of volatile organic compounds in all-solid cell at ambient temperature. *Chemical Engineering Journal*, **2018**, 354, 93-104	14.7	6
82	The effects of H2O on a vanadium-based catalyst for NH3-SCR at low temperatures: a quantitative study of the reaction pathway and active sites. *Catalysis Science and Technology*, **2019**, 9, 5593-5604	5.5	6
81	Complete Catalytic Oxidation of Ethanol over MnO2 with Different Crystal Phase Structures. *Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica*, **2015**, 31, 353-359	3.8	6
80	Alumina with Various Pore Structures Prepared by Spray Pyrolysis of Inorganic Aluminum Precursors. *Industrial & Engineering Chemistry Research*, **2013**, 52, 13377-13383	3.9	6
79	Influence of Alkaline Earth Metals on Cobalt-Cerium Composite Oxide Catalysts for N2O Decomposition. *Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica*, **2009**, 25, 1033-1039	3.8	6
78	Preparation o fMagnetic Sulfonated Carbon-Based Solid Acid Catalysts for the Hydrolysis of Cellulose. *Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica*, **2010**, 26, 1873-1878	3.8	6
77	Synthesis of Cu-SSZ-13 catalyst by using different silica sources for NO-SCR by NH3. *Molecular Catalysis*, **2020**, 484, 110738	3.3	6
76	Combination of Low- and Medium-Temperature Catalysts for the Selective Catalytic Reduction of NOx with NH3. *Topics in Catalysis*, **2020**, 63, 924-931	2.3	6
75	Nano-sized Ag rather than single-atom Ag determines CO oxidation activity and stability. *Nano Research*,1	10	6
74	In-situ DRIFT assessment on strengthening effect of cerium over FeO /TiO2 catalyst for selective catalytic reduction of NO with NH3. *Journal of Rare Earths*, **2021**, 39, 526-531	3.7	6
73	Effect of Organic Assistant on the Performance of Ceria-Based Catalysts for the Selective Catalytic Reduction of NO with Ammonia. *Catalysts*, **2019**, 9, 357	4	5
72	Fuel reforming over Ni-based catalysts coupled with selective catalytic reduction of NOx. *Chinese Journal of Catalysis*, **2013**, 34, 1407-1417	11.3	5
71	Theoretical and experiment studies on the adsorption of formate species on the surface of catalyst. *Journal of Molecular Structure*, **2008**, 891, 242-246	3.4	5
70	Advances in Mechanistic and Practical Studies on the Selective Catalytic Reduction of NOx by Oxygenated Hydrocarbons over Ag/Al2O3. *Chinese Journal of Catalysis*, **2010**, 31, 491-501	11.3	5
69	Efficient Conversion of NO to NO on SO-Aged MgO under Atmospheric Conditions. *Environmental Science & Technology*, **2020**, 54, 11848-11856	10.3	5
68	Formaldehyde Oxidation on Pd/TiO2 Catalysts at Room Temperature: The Effects of Surface Oxygen Vacancies. *Topics in Catalysis*, **2020**, 63, 810-816	2.3	5
67	Significant contribution of spring northwest transport to volatile organic compounds in Beijing. *Journal of Environmental Sciences*, **2021**, 104, 169-181	6.4	5
66	A laboratory study on the hygroscopic behavior of H2C2O4-containing mixed particles. *Atmospheric Environment*, **2019**, 200, 34-39	5.3	5

65	A robust H-transfer redox mechanism determines the high-efficiency catalytic performance of layered double hydroxides. *Applied Catalysis B: Environmental*, **2021**, 285, 119806	21.8	5
64	Ammonium nitrate promotes sulfate formation through uptake kinetic regime. *Atmospheric Chemistry and Physics*, **2021**, 21, 13269-13286	6.8	5
63	To enhance water resistance for catalytic ozone decomposition by fabricating H2O adsorption-site in OMS-2 tunnels. *Applied Catalysis B: Environmental*, **2021**, 297, 120466	21.8	5
62	Highly efficient Ru/CeO2 catalysts for formaldehyde oxidation at low temperature and the mechanistic study. *Catalysis Science and Technology*, **2021**, 11, 1914-1921	5.5	5
61	Inhibitory role of excessive NH3 in NH3-SCR on CeWOx at low temperatures. *Catalysis Science and Technology*, **2020**, 10, 2758-2762	5.5	4
60	Nanodispersed MnO/□AlO for NO Elimination at Room Temperature. *Environmental Science & Technology*, **2019**, 53, 10855-10862	10.3	4
59	Theoretical Study of PAH Growth by Phenylacetylene Addition. *Journal of Physical Chemistry A*, **2019**, 123, 10323-10332	2.8	4
58	Uptake and conversion of carbonyl sulfide in a lawn soil. *Atmospheric Environment*, **2007**, 41, 5697-5706	5.3	4
57	Theoretical and experimental study on formation and adsorption of enolic species on Ag-Pd/Al2O3 catalyst. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2005**, 61, 3117-23	4.4	4
56	Application of high-resolution electron energy loss spectroscopy to the adsorption and the photoreaction of CH2I2 and CD3OD on a MoOx thin film. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **1995**, 13, 2689-2697	2.9	4
55	Improving the representation of HONO chemistry in CMAQ and examining its impact on haze over China. *Atmospheric Chemistry and Physics*, **2021**, 21, 15809-15826	6.8	4
54	Chemical formation and source apportionment of PM at an urban site at the southern foot of the Taihang mountains. *Journal of Environmental Sciences*, **2021**, 103, 20-32	6.4	4
53	The role of Ag O Al entities in adsorption of NCO species and reduction of NO. *Catalysis Today*, **2015**, 258, 35-40	5.3	3
52	Impacts of Mixed Gaseous and Particulate Pollutants on Secondary Particle Formation during Ozonolysis of Butyl Vinyl Ether. *Environmental Science & Technology*, **2020**, 54, 3909-3919	10.3	3
51	Activation of solid surface as catalyst. *Catalysis Today*, **2013**, 201, 2-6	5.3	3
50	Adsorption and catalytic combustion of ARB on CuO-Fe2O3. *Science Bulletin*, **2003**, 48, 2311		3
49	Self-Limiting Heterogeneous Reactions:□Bifunctional Hydrocarbon on a Bimetallic Alloy Surface. *Journal of Physical Chemistry B*, **2000**, 104, 12306-12314	3.4	3
48	Unravelling the Mechanism of Intermediate-Temperature CO Interaction with Molten-NaNO -Salt-Promoted MgO. *Advanced Materials*, **2021**, e2106677	24	3

47	A simple strategy to tune □MnO2 and enhance VOC oxidation via precipitation rate control. *Applied Surface Science*, **2022**, 576, 151823	6.7	3
46	Molecular Composition of Oxygenated Organic Molecules and Their Contributions to Organic Aerosol in Beijing. *Environmental Science & Technology*, **2021**,	10.3	3
45	Research Progress in Vanadium-Free Catalysts for the Selective Catalytic Re-duction of NO with NH3. *Chinese Journal of Catalysis*, **2014**, 32, 1113-1128	11.3	3
44	Investigation of Water and Sulfur Tolerance of Precipitable Silver Compound Ag/AlO Catalysts in H-Assisted CH-SCR of NO. *ACS Omega*, **2020**, 5, 29593-29600	3.9	3
43	Promoting Effect of Mn on In Situ Synthesized Cu-SSZ-13 for NH3-SCR. *Catalysts*, **2020**, 10, 1375	4	3
42	Application of smog chambers in atmospheric process studies.. *National Science Review*, **2022**, 9, nwab103	20.8	3
41	Surface oxygen species essential for the catalytic activity of CeM□n (M = Mn or Fe) in soot oxidation. *Catalysis Science and Technology*, **2021**, 11, 895-903	5.5	3
40	Effects of SO2 on standard and fast SCR over CeWOx: A quantitative study of the reaction pathway and active sites. *Applied Catalysis B: Environmental*, **2021**, 301, 120784	21.8	3
39	Influence of NO on the activity of Pd/□AlO catalyst for methane oxidation: Alleviation of transient deactivation.. *Journal of Environmental Sciences*, **2022**, 112, 38-47	6.4	3
38	Annual nonmethane hydrocarbon trends in Beijing from 2000 to 2019.. *Journal of Environmental Sciences*, **2022**, 112, 210-217	6.4	3
37	Dynamic Change of Active Sites of Supported Vanadia Catalysts for Selective Catalytic Reduction of Nitrogen Oxides.. *Environmental Science & Technology*, **2022**,	10.3	3
36	New Insight into and Characterization of the Aqueous Metal-Enol(ate) Complexes of (Acetonedicarboxylato)copper. *ACS Omega*, **2017**, 2, 6728-6740	3.9	2
35	Effect of SO2 treatment in the presence and absence of O2 over ceria□titania oxides for selective catalytic reduction. *Journal of Materials Science*, **2020**, 55, 4570-4577	4.3	2
34	Shape dependence of support for NO storage and reduction catalysts. *Journal of Environmental Sciences*, **2019**, 75, 396-407	6.4	2
33	Photoinduced charge-transfer reaction at surfaces. II. HBr?Nan/LiF(001)+hv(610 nm)-Br□Nan+/LiF(001)+H(g). *Journal of Chemical Physics*, **2003**, 119, 9795-9803	3.9	2
32	Adsorption and thermally induced reactions of halocyclohexanes on a Cu3Pt(111) surface. *Surface Science*, **2001**, 479, 213-223	1.8	2
31	Ordering and stabilization of C 60 films on the (3□)R30□Sn/Pt(111) surface alloy. *Surface Science*, **1999**, 425, 141-151	1.8	2
30	Oxygen induced direct hydrogenation of CO on Ni(100) surface. *Catalysis Letters*, **1994**, 25, 105-113	2.8	2

29	One-pot synthesis of hierarchical MnCu-SSZ-13 catalyst with excellent NH3-SCR activity at low temperatures. *Microporous and Mesoporous Materials*, **2022**, 333, 111720	5.3	2
28	N-nitration of secondary aliphatic amines in the particle phase.. *Chemosphere*, **2022**, 133639	8.4	2
27	Environmental-friendly catalysts for the selective catalytic reduction of NO_{<italic>x</italic>}. *Scientia Sinica Chimica*, **2012**, 42, 446-468	1.6	2
26	Reaction Pathways of Standard and Fast Selective Catalytic Reduction over Cu-SSZ-39. *Environmental Science & Technology*, **2021**, 55, 16175-16183	10.3	2
25	Coordinated control of fine-particle and ozone pollution by the substantial reduction of nitrogen oxides. *Engineering*, **2021**,	9.7	2
24	Photochemical Aging of Atmospheric Fine Particles as a Potential Source for Gas-Phase Hydrogen Peroxide. *Environmental Science & Technology*, **2021**, 55, 15063-15071	10.3	2
23	A mini-review on the role of quasi-compounds in catalysis □The ammonia synthesis reaction on metals. *Surface Science*, **2019**, 679, 264-272	1.8	2
22	Investigation of suitable precursors for manganese oxide catalysts in ethyl acetate oxidation. *Journal of Environmental Sciences*, **2021**, 104, 17-26	6.4	2
21	Low-Temperature SCR Catalyst Development and Industrial Applications in China. *Catalysts*, **2022**, 12, 341	4	2
20	Mesoporous LaCoO perovskite oxide with high catalytic performance for NO storage and reduction.. *Journal of Hazardous Materials*, **2022**, 431, 128528	12.8	2
19	A review of experimental techniques for aerosol hygroscopicity studies **2019**,		1
18	DFT and experimental investigations of the formation and adsorption of enolic species on Al2O3 catalyst. *Journal of Molecular Structure*, **2008**, 892, 320-324	3.4	1
17	CeO2 doping boosted low-temperature NH3-SCR activity of FeTiOx catalyst: A microstructure analysis and reaction mechanistic study. *Frontiers of Environmental Science and Engineering*, **2022**, 16, 1	5.8	1
16	Boosting the Dispersity of Metallic Ag Nanoparticles and Ozone Decomposition Performance of Ag-Mn Catalysts via Manganese Vacancy-Dependent Metal-Support Interactions. *Environmental Science & Technology*, **2021**, 55, 16143-16152	10.3	1
15	Cocatalyst Modification of AgTaO3 Photocatalyst for Conversion of Carbon Dioxide with Water. *Journal of Physical Chemistry C*,	3.8	1
14	Terminal Hydroxyl Groups on AlO Supports Influence the Valence State and Dispersity of Ag Nanoparticles: Implications for Ozone Decomposition. *ACS Omega*, **2021**, 6, 10715-10722	3.9	1
13	Iron-Based Composite Oxide Catalysts Tuned by CTAB Exhibit Superior NH3□CR Performance. *Catalysts*, **2021**, 11, 224	4	1
12	Promotion Effects of Barium and Cobalt on Manganese Oxide Catalysts for Soot Oxidation. *Industrial & Engineering Chemistry Research*, **2021**, 60, 11412-11420	3.9	1

11	Mechanistic Study of the Aqueous Reaction of Organic Peroxides with HSO on the Surface of a Water Droplet. *Angewandte Chemie - International Edition*, **2021**, 60, 20200-20203	16.4	1
10	Redox and acid properties of MnV2Ox/TiO2 catalysts synthesized by assistance of microwave for NO selective catalytic reduction by ammonia. *Chemical Engineering Journal Advances*, **2021**, 8, 100156	3.6	1
9	Distinct photocatalytic charges separation pathway on CuOx modified rutile and anatase TiO2 under visible light. *Applied Catalysis B: Environmental*, **2022**, 300, 120735	21.8	1
8	Developing a thermally stable Co/Ce-Sn catalyst via adding Sn for soot and CO oxidation.. *IScience*, **2022**, 25, 104103	6.1	1
7	Layered Double Hydroxide Catalysts for Ozone Decomposition: The Synergic Role of M and M.. *Environmental Science & Technology*, **2021**,	10.3	1
6	Promotion Effect of the Keggin Structure on the Sulfur and Water Resistance of Pt/CeTi Catalysts for CO Oxidation. *Catalysts*, **2022**, 12, 4	4	1
5	Influence of photochemical loss of volatile organic compounds on understanding ozone formation mechanism. *Atmospheric Chemistry and Physics*, **2022**, 22, 4841-4851	6.8	1
4	Mechanistic Study of the Aqueous Reaction of Organic Peroxides with HSO3□on the Surface of a Water Droplet. *Angewandte Chemie*, **2021**, 133, 20362-20365	3.6	0
3	Dramatic decrease of secondary organic aerosol formation potential in Beijing: Important contribution from reduction of coal combustion emission.. *Science of the Total Environment*, **2022**, 155045	10.2	0
2	Influence of coating method on catalyst activity of AgCl/Al2O3/SUS304 composite plate. *Journal of Environmental Sciences*, **2011**, 23 Suppl, S90-4	6.4	
1	Increased primary and secondary H₂SO₄ showing the opposing roles in secondary organic aerosol formation from ethyl methacrylate ozonolysis. *Atmospheric Chemistry and Physics*, **2021**, 21, 7099-7112	6.8	