Andrzej Kotarba

List of Publications by Year in descending order

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177 papers 5,071 citations

76326 40 h-index 58 g-index

178 all docs

178 docs citations

178 times ranked

4461 citing authors

#	Article	IF	CITATIONS
1	Platinum nanoparticles supported on zeolite MWW nanosheets prepared via homogeneous solution route. Catalysis Today, 2022, 390-391, 335-342.	4.4	1
2	Novel Ce-modified cobalt catalysts supported over \hat{l} ±-Al2O3 open cell foams for lean methane oxidation. Applied Catalysis A: General, 2022, 632, 118511.	4.3	1
3	Highly robust and efficient MnZnFe ₂ O ₄ decorated fibrous KCC-SiO ₂ catalyst for the synthesis of light olefins from syngas. Catalysis Science and Technology, 2022, 12, 1892-1901.	4.1	3
4	Tuning the properties of the cobalt-zeolite nanocomposite catalyst by potassium: Switching between dehydration and dehydrogenation of ethanol. Journal of Catalysis, 2022, 407, 364-380.	6.2	12
5	Preparation of 3DOM ZrTiO4 Support, WxCeMnOî/3DOM ZrTiO4 Catalysts, and Their Catalytic Performance for the Simultaneous Removal of Soot and NOx. Frontiers in Chemistry, 2022, 10, .	3.6	1
6	Work function of the oxygen functionalized graphenic surfaces – integral experimental and theoretical approach. Applied Surface Science, 2022, , 153671.	6.1	3
7	Effect of Potassium Promoter on the Performance of Nickel-Based Catalysts Supported on MnOx in Steam Reforming of Ethanol. Catalysts, 2022, 12, 600.	3.5	6
8	Opposite effects of gold and silver nanoparticle decoration of graphenic surfaces on bacterial attachment. New Journal of Chemistry, 2022, 46, 13286-13295.	2.8	2
9	Graphene-based materials enhance cardiomyogenic and angiogenic differentiation capacity of human mesenchymal stem cells in vitro – Focus on cardiac tissue regeneration. Materials Science and Engineering C, 2021, 119, 111614.	7.3	20
10	Conductive all-carbon nanotube layers: Results on attractive physicochemical, anti-bacterial, anticancer and biocompatibility properties. Materials Science and Engineering C, 2021, 120, 111703.	7.3	12
11	Stability of oxygen-functionalized graphenic surfaces: Theoretical and experimental insights into electronic properties and wettability. Applied Surface Science, 2021, 539, 148190.	6.1	15
12	Facile synthesis of birnessite-type K2Mn4O8 and cryptomelane-type K2-xMn8O16 catalysts and their excellent catalytic performance for soot combustion with high resistance to H2O and SO2. Applied Catalysis B: Environmental, 2021, 285, 119779.	20.2	50
13	Demonstration of the Influence of Specific Surface Area on Reaction Rate in Heterogeneous Catalysis. Journal of Chemical Education, 2021, 98, 935-940.	2.3	43
14	Characterization of Partially Covered Self-Expandable Metallic Stents for Esophageal Cancer Treatment: <i>In Vivo</i> Degradation. ACS Biomaterials Science and Engineering, 2021, 7, 1403-1413.	5.2	4
15	Optimization of the potassium promotion of the Co $ \hat{1}\pm A 2O3$ catalyst for the effective hydrogen production via ethanol steam reforming. Applied Catalysis A: General, 2021, 614, 118051.	4.3	24
16	Hierarchical Porous K-OMS-2/3DOM-m Ti _{0.7} Si _{0.3} O ₂ Catalysts for Soot Combustion: Easy Preparation, High Catalytic Activity, and Good Resistance to H ₂ O and SO ₂ . ACS Catalysis, 2021, 11, 5554-5571.	11.2	44
17	Design, characterization and evaluation of Ce-modified cobalt catalysts supported on alpha alumina in the abatement of methane emissions from natural gas engines. Applied Catalysis A: General, 2021, 617, 118105.	4.3	9
18	Production of ultra-dense hydrogen H(0): A novel nuclear fuel. International Journal of Hydrogen Energy, 2021, 46, 18466-18480.	7.1	16

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19	Mechanistic Insights into Oxygen Dynamics in Soot Combustion over Cryptomelane Catalysts in Tight and Loose Contact Modes via ⟨sup⟩18⟨ sup⟩O⟨sub⟩2⟨ sub⟩ ⟨sup⟩16⟨ sup⟩O⟨sub⟩2⟨ sub⟩ Isotopic Variable Composition Measurements – A Hot Ring Model of the Catalyst Operation. ACS Catalysis, 2021, 11, 9530-9546.	11.2	15
20	Innovative method for the preparation of catalytic surfaces: The application of microorganisms for the deposition of nanoparticles on supports. Applied Surface Science, 2021, 553, 149573.	6.1	2
21	Carbon-Based Composites as Electrocatalysts for Oxygen Evolution Reaction in Alkaline Media. Materials, 2021, 14, 4984.	2.9	23
22	Screening investigations into the effect of cryptomelane doping with 3d transition metal cations on the catalytic activity in soot oxidation, NO2 formation and SO2 resistance. Applied Catalysis A: General, 2021, 624, 118302.	4.3	11
23	Oxidation of soot over supported RuRe nanoparticles prepared by the microwave-polyol method. Reaction Kinetics, Mechanisms and Catalysis, 2021, 134, 221-242.	1.7	3
24	Evaluation of the inhibiting effect of H2O, O2, and NO on the performance of laboratory and pilot K-ZnxCo3-xO4 catalysts supported on α-Al2O3 for low-temperature N2O decomposition. Applied Catalysis B: Environmental, 2021, 297, 120435.	20.2	12
25	Covalently bonded surface functional groups on carbon nanotubes: from molecular modeling to practical applications. Nanoscale, 2021, 13, 10152-10166.	5.6	24
26	Development of structured Co3O4-based catalyst for N2O removal from hospital ventilation systems. Catalysis Today, 2020, 348, 111-117.	4.4	13
27	Recent progress on parylene C polymer for biomedical applications: A review. Progress in Organic Coatings, 2020, 140, 105493.	3.9	87
28	New insights into the role of active copper species in CuO/Cryptomelane catalysts for the CO-PROX reaction. Applied Catalysis B: Environmental, 2020, 267, 118372.	20.2	35
29	Cobalt catalyst for steam reforming of ethanol–Insights into the promotional role of potassium. International Journal of Hydrogen Energy, 2020, 45, 22658-22673.	7.1	22
30	Magnesium Effect in K/Co-Mg-Mn-Al Mixed Oxide Catalyst for Direct NO Decomposition. Catalysts, 2020, 10, 931.	3. 5	9
31	Soot Combustion over Niobium-Doped Cryptomelane (K-OMS-2) Nanorods—Redox State of Manganese and the Lattice Strain Control the Catalysts Performance. Catalysts, 2020, 10, 1390.	3 . 5	11
32	Influence of Different Birnessite Interlayer Alkali Cations on Catalytic Oxidation of Soot and Light Hydrocarbons. Catalysts, 2020, 10, 507.	3. 5	2
33	Functionalization of the Parylene C Surface Enhances the Nucleation of Calcium Phosphate: Combined Experimental and Molecular Dynamics Simulations Approach. ACS Applied Materials & Enterfaces, 2020, 12, 12426-12435.	8.0	12
34	Bulk, Surface and Interface Promotion of Co3O4 for the Low-Temperature N2O Decomposition Catalysis. Catalysts, 2020, 10, 41.	3.5	26
35	Atomic-Level Dispersion of Bismuth over Co3O4 Nanocrystals—Outstanding Promotional Effect in Catalytic DeN2O. Catalysts, 2020, 10, 351.	3.5	6
36	Design, engineering, and performance of nanorod-Fe2O3@rGO@LaSrFe2-Co O6 (n = 0, 1) composite architectures: The role of double oxide perovskites in reaching high solar to hydrogen efficiency. Applied Catalysis B: Environmental, 2020, 272, 118952.	20.2	19

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37	Bacterial attachment to oxygen-functionalized graphenic surfaces. Materials Science and Engineering C, 2020, 113, 110972.	7.3	26
38	Attachment efficiency of gold nanoparticles by Gram-positive and Gram-negative bacterial strains governed by surface charges. Journal of Nanoparticle Research, 2019, 21, 1.	1.9	121
39	Precipitated K-Promoted Co–Mn–Al Mixed Oxides for Direct NO Decomposition: Preparation and Properties. Catalysts, 2019, 9, 592.	3.5	10
40	Co-Mn-Al Mixed Oxides Promoted by K for Direct NO Decomposition: Effect of Preparation Parameters. Catalysts, 2019, 9, 593.	3.5	18
41	CO-PROX Reaction over Co ₃ O ₄ Al ₂ O ₃ Catalystsâ€"Impact of the Spinel Active Phase Faceting on the Catalytic Performance. Journal of Physical Chemistry C, 2019, 123, 20221-20232.	3.1	31
42	Investigation of the surface species during temperature dependent dehydrogenation of naphthalene on Ni(111). Journal of Chemical Physics, 2019, 150, 244704.	3.0	3
43	Biofunctional catheter coatings based on chitosan-fatty acids derivatives. Carbohydrate Polymers, 2019, 225, 115263.	10.2	24
44	Effect of noble metal addition to alkali-exchanged cryptomelane on the simultaneous soot and VOC combustion activity. Catalysis Communications, 2019, 132, 105807.	3.3	15
45	Structure–redox reactivity relationships in Co _{1â~x} Zn _x Fe ₂ O ₄ : the role of stoichiometry. New Journal of Chemistry, 2019, 43, 3038-3049.	2.8	46
46	Thermal Transformation of Birnessite (OL) Towards Highly Active Cryptomelane (OMS-2) Catalyst for Soot Oxidation. Catalysis Letters, 2019, 149, 2218-2225.	2.6	19
47	Nanocomposite multifunctional polyelectrolyte thin films with copper nanoparticles as the antimicrobial coatings. Colloids and Surfaces B: Biointerfaces, 2019, 181, 112-118.	5.0	26
48	Thermal oxygen activation followed by in situ work function measurements over carbon-supported noble metal-based catalysts. International Journal of Hydrogen Energy, 2019, 44, 16648-16656.	7.1	17
49	Importance of Surface Functionalities for Antibacterial Properties of Carbon Spheres. Advanced Sustainable Systems, 2019, 3, 1800148.	5.3	12
50	Nanostructured Potassium-Manganese Oxides Decorated with Pd Nanoparticles as Efficient Catalysts for Low-Temperature Soot Oxidation. Catalysis Letters, 2019, 149, 100-106.	2.6	20
51	Evaluating the effect of oxygen groups attached to the surface of graphenic sheets on bacteria adhesion: The role of the electronic factor. Applied Surface Science, 2019, 463, 1134-1140.	6.1	19
52	Robust Co3O4 α-Al2O3 cordierite structured catalyst for N2O abatement – Validation of the SCS method for active phase synthesis and deposition. Chemical Engineering Journal, 2019, 377, 120088.	12.7	23
53	One-step sonochemical fabrication and embedding of gentamicin nanoparticles into parylene C implant coating: towards controlled drug delivery. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 941-950.	3.3	7
54	Designing, optimization and performance evaluation of the K-Zn0.4Co2.6O4 α-Al2O3 cordierite catalyst for low-temperature N2O decomposition. Catalysis Communications, 2018, 110, 64-67.	3.3	13

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55	The Effect of Fe, Co, and Ni Structural Promotion of Cryptomelane (KMn8O16) on the Catalytic Activity in Oxygen Evolution Reaction. Electrocatalysis, 2018, 9, 762-769.	3.0	21
56	Insight into the modification of electrodonor properties of multiwalled carbon nanotubes via oxygen plasma: Surface functionalization versus amorphization. Carbon, 2018, 137, 425-432.	10.3	23
57	Bridging the gap between tight and loose contacts for soot oxidation by vanadium doping of cryptomelane nanorods catalyst using NO ₂ as an oxygen carrier. Catalysis Science and Technology, 2018, 8, 3183-3192.	4.1	20
58	Sensitive Voltammetric Amoxicillin Sensor Based on TiO ₂ Sol Modified by CMKâ€3â€type Mesoporous Carbon and Gold Ganoparticles. Electroanalysis, 2018, 30, 2386-2396.	2.9	28
59	Phase evolution and electronic properties of cryptomelane nanorods. Journal of Alloys and Compounds, 2018, 767, 592-599.	5.5	10
60	The Effect of the Preparation Method of Pd-Doped Cobalt Spinel on the Catalytic Activity in Methane Oxidation Under Lean Fuel Conditions. Topics in Catalysis, 2017, 60, 333-341.	2.8	18
61	On the stability of alkali metal promoters in Co mixed oxides during direct NO catalytic decomposition. Molecular Catalysis, 2017, 428, 33-40.	2.0	22
62	Optimization of Pd catalysts supported on Co3O4 for low-temperature lean combustion of residual methane. Applied Catalysis B: Environmental, 2017, 206, 712-725.	20.2	107
63	Thermal stability and repartition of potassium promoter between the support and active phase in the K-Co2.6Zn0.4O4 $ \hat{1}\pm$ -Al2O3 catalyst for N2O decomposition: Crucial role of activation temperature on catalytic performance. Applied Catalysis B: Environmental, 2017, 205, 597-604.	20.2	37
64	Insights into Structure, Morphology and Reactivity of the Iron Oxide Based Fuel Borne Catalysts. Topics in Catalysis, 2017, 60, 367-373.	2.8	3
65	Alkali tungsten bronzes as soot oxidation catalysts: The key role of electrodonor properties of catalytic surface. Catalysis Communications, 2017, 98, 76-80.	3.3	15
66	Molecular Dynamics Insights into Water–Parylene C Interface: Relevance of Oxygen Plasma Treatment for Biocompatibility. ACS Applied Materials & Discompatibility. Discompatibility. ACS Applied Materials & Discompatibility. Discompatibility. ACS Applied Materials & Discompatibility. Dis	8.0	10
67	Work function modifications of graphite surface via oxygen plasma treatment. Applied Surface Science, 2017, 419, 439-446.	6.1	30
68	Influence of preparation method on dispersion of cobalt spinel over alumina extrudates and the catalyst deN 2 O activity. Applied Catalysis B: Environmental, 2017, 210, 34-44.	20.2	29
69	Strong Enhancement of deSoot Activity of Transition Metal Oxides by Alkali Doping: Additive Effects of Potassium and Nitric Oxide. Topics in Catalysis, 2017, 60, 162-170.	2.8	37
70	Naphthalene on Ni(111): Experimental and Theoretical Insights into Adsorption, Dehydrogenation, and Carbon Passivation. Journal of Physical Chemistry C, 2017, 121, 22199-22207.	3.1	13
71	On the selection of the best polymorph of Al2O3 carriers for supported cobalt nano-spinel catalysts for N2O abatement: an interplay between preferable surface spreading and damaging active phase–support interaction. Catalysis Science and Technology, 2017, 7, 5723-5732.	4.1	22
72	Facile synthesis of ordered CeO 2 nanorod assemblies: Morphology and reactivity. Materials Chemistry and Physics, 2017, 201, 139-146.	4.0	21

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73	Investigation of low Ce amount doped-TiO2 prepared by using pressurized fluids in photocatalytic N2O decomposition and CO2 reduction. Journal of Sol-Gel Science and Technology, 2017, 84, 158-168.	2.4	15
74	Optimization of cesium and potassium promoter loading in alkali-doped Zn0.4Co2.6O4 Al2O3 catalysts for N2O abatement. Reaction Kinetics, Mechanisms and Catalysis, 2017, 121, 645-655.	1.7	15
75	Enhancing the deN2O activity of the supported Co3O4 $ \hat{i}_{\pm}$ -Al2O3 catalyst by glycerol-assisted shape engineering of the active phase at the nanoscale. Applied Catalysis B: Environmental, 2017, 201, 339-347.	20.2	42
76	Reactivity of Mixed Iron–Cobalt Spinels in the Lean Methane Combustion. Topics in Catalysis, 2017, 60, 1370-1379.	2.8	19
77	Role of chain length of the capping agents of iron oxide based fuel borne catalysts in the enhancement of soot combustion activity. Applied Catalysis B: Environmental, 2016, 199, 485-493.	20.2	13
78	Hybrid oxide-polymer layer formed on Ti-15Mo alloy surface enhancing antibacterial and osseointegration functions. Surface and Coatings Technology, 2016, 302, 158-165.	4.8	24
79	How to Efficiently Promote Transition Metal Oxides by Alkali Towards Catalytic Soot Oxidation. Topics in Catalysis, 2016, 59, 1083-1089.	2.8	31
80	Optimization of cerium doping of TiO2 for photocatalytic reduction of CO2 and photocatalytic decomposition of N2O. Journal of Sol-Gel Science and Technology, 2016, 78, 550-558.	2.4	15
81	Primary role of electron work function for evaluation of nanostructured titania implant surface against bacterial infection. Materials Science and Engineering C, 2016, 66, 100-105.	7.3	16
82	Parallel migration of potassium and oxygen ions in hexagonal tungsten bronze – Bulk diffusion, surface segregation and desorption. Solid State Ionics, 2016, 297, 1-6.	2.7	11
83	Multifunctional PLGA/Parylene C Coating for Implant Materials: An Integral Approach for Biointerface Optimization. ACS Applied Materials & Samp; Interfaces, 2016, 8, 22093-22105.	8.0	29
84	Designing new catalysts: synthesis of new active structures: general discussion. Faraday Discussions, 2016, 188, 131-159.	3.2	4
85	Catalyst design from theory to practice: general discussion. Faraday Discussions, 2016, 188, 279-307.	3.2	2
86	Bridging model and real catalysts: general discussion. Faraday Discussions, 2016, 188, 565-589.	3.2	3
87	Application of novel catalysts: general discussion. Faraday Discussions, 2016, 188, 399-426.	3.2	0
88	Thermodynamic Stability, Redox Properties, and Reactivity of Mn ₃ O ₄ , Fe ₃ O ₄ , and Co ₃ O ₄ Model Catalysts for N ₂ O Decomposition: Resolving the Origins of Steady Turnover. ACS Catalysis, 2016, 6, 1235-1246.	11.2	96
89	Strong dispersion effect of cobalt spinel active phase spread over ceria for catalytic N2O decomposition: The role of the interface periphery. Applied Catalysis B: Environmental, 2016, 180, 622-629.	20.2	101
90	K-Doped Co–Mn–Al Mixed Oxide Catalyst for N ₂ O Abatement from Nitric Acid Plant Waste Gases: Pilot Plant Studies. Industrial & Engineering Chemistry Research, 2016, 55, 7076-7084.	3.7	14

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91	Novel cerium doped titania catalysts for photocatalytic decomposition of ammonia. Applied Catalysis B: Environmental, 2015, 178, 108-116.	20.2	63
92	Comments on "Surface energy of parylene C― Materials Letters, 2015, 160, 14-15.	2.6	6
93	Insights into the twofold role of Cs doping on deN 2 O activity of cobalt spinel catalyst—towards rational optimization of the precursor and loading. Applied Catalysis B: Environmental, 2015, 168-169, 509-514.	20.2	51
94	Pd/Co3O4-based catalysts prepared by solution combustion synthesis for residual methane oxidation in lean conditions. Catalysis Today, 2015, 257, 66-71.	4.4	53
95	Density Functional Theory Modeling and Time-of-Flight Secondary Ion Mass Spectrometric and X-ray Photoelectron Spectroscopic Investigations into Mechanistic Key Events of Coronene Oxidation: Toward Molecular Understanding of Soot Combustion. Journal of Physical Chemistry C, 2015, 119, 6568-6580.	3.1	11
96	Microbiological investigations of oxygen plasma treated parylene C surfaces for metal implant coating. Materials Science and Engineering C, 2015, 52, 273-281.	7. 3	30
97	The role of crystallite size of iron oxide catalyst for soot combustion. Catalysis Today, 2015, 257, 111-116.	4.4	26
98	Cobalt–zinc spinel dispersed over cordierite monoliths for catalytic N2O abatement from nitric acid plants. Catalysis Today, 2015, 257, 93-97.	4.4	28
99	Surface versus bulk alkali promotion of cobalt-oxide catalyst in soot oxidation. Catalysis Communications, 2015, 71, 37-41.	3.3	42
100	Development of crystalline–amorphous parylene C structure in micro- and nano-range towards enhanced biocompatibility: the importance of oxygen plasma treatment time. RSC Advances, 2015, 5, 48816-48821.	3.6	22
101	Emission of highly excited electronic states of potassium from cryptomelane nanorods. Physical Chemistry Chemical Physics, 2015, 17, 26289-26294.	2.8	15
102	Soot oxidation over K-doped manganese and iron spinels $\hat{a}\in$ " How potassium precursor nature and doping level change the catalyst activity. Catalysis Communications, 2014, 43, 34-37.	3.3	65
103	Influence of the surface potassium species in Fe–K/Al2O3 catalysts on the soot oxidation activity in the presence of NOx. Applied Catalysis B: Environmental, 2014, 152-153, 88-98.	20.2	82
104	Mg and Al substituted cobalt spinels as catalysts for low temperature deN2Oâ€"Evidence for octahedral cobalt active sites. Applied Catalysis B: Environmental, 2014, 146, 105-111.	20.2	99
105	Preparation, characterization and photocatalytic properties of cerium doped TiO2: On the effect of Ce loading on the photocatalytic reduction of carbon dioxide. Applied Catalysis B: Environmental, 2014, 152-153, 172-183.	20.2	104
106	Studies of potassium-promoted nickel catalysts for methane steam reforming: Effect of surface potassium location. Applied Surface Science, 2014, 300, 191-200.	6.1	51
107	LDI-MS examination of oxygen plasma modified polymer for designing tailored implant biointerfaces. RSC Advances, 2014, 4, 26240-26243.	3.6	11
108	Boosting the catalytic activity of magnetite in soot oxidation by surface alkali promotion. Catalysis Communications, 2014, 56, 139-142.	3.3	42

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109	Cobalt Spinel Catalyst for N ₂ O Abatement in the Pilot Plant Operation–Long-Term Activity and Stability in Tail Gases. Industrial & Engineering Chemistry Research, 2014, 53, 10335-10342.	3.7	41
110	ZnS/MMT nanocomposites: The effect of ZnS loading in MMT on the photocatalytic reduction of carbon dioxide. Applied Catalysis B: Environmental, 2014, 158-159, 410-417.	20.2	44
111	Influence of Potassium and NO Addition on Catalytic Activity in Soot Combustion and Surface Properties of Iron and Manganese Spinels. Topics in Catalysis, 2013, 56, 745-749.	2.8	26
112	Role of Electronic Factor in Soot Oxidation Process Over Tunnelled and Layered Potassium Iron Oxide Catalysts. Topics in Catalysis, 2013, 56, 489-492.	2.8	42
113	Oxygen plasma functionalization of parylene C coating for implants surface: Nanotopography and active sites for drug anchoring. Materials Science and Engineering C, 2013, 33, 4221-4227.	7.3	85
114	DFT Modeling of Reaction Mechanism and Ab Initio Microkinetics of Catalytic N ₂ O Decomposition over Alkaline Earth Oxides: From Molecular Orbital Picture Account to Simulation of Transient and Stationary Rate Profiles. Journal of Physical Chemistry C, 2013, 117, 18488-18501.	3.1	33
115	Rationales for the selection of the best precursor for potassium doping of cobalt spinel based deN2O catalyst. Applied Catalysis B: Environmental, 2013, 136-137, 302-307.	20.2	78
116	Engineering of bone fixation metal implants biointerfaceâ€"Application of parylene C as versatile protective coating. Materials Science and Engineering C, 2012, 32, 2431-2435.	7.3	28
117	Parylene coatings on stainless steel 316L surface for medical applications — Mechanical and protective properties. Materials Science and Engineering C, 2012, 32, 31-35.	7.3	47
118	Periodic DFT and HR-STEM Studies of Surface Structure and Morphology of Cobalt Spinel Nanocrystals. Retrieving 3D Shapes from 2D Images. Journal of Physical Chemistry C, 2011, 115, 6423-6432.	3.1	70
119	Computational and Experimental Investigations into N ₂ O Decomposition over MgO Nanocrystals from Thorough Molecular Mechanism to ab initio Microkinetics. Journal of Physical Chemistry C, 2011, 115, 22451-22460.	3.1	41
120	THE ROLE OF INTERMEDIATE CALCIUM ALUMINATE PHASES IN SOLID STATE SYNTHESIS OF MAYENITE (Ca12Al14O33). Functional Materials Letters, 2011, 04, 183-186.	1.2	49
121	Electronic nature of potassium promotion effect in Co–Mn–Al mixed oxide on the catalytic decomposition of N2O. Catalysis Communications, 2011, 12, 1055-1058.	3.3	42
122	Catalytic properties in N2O decomposition of mixed cobalt–iron spinels. Catalysis Communications, 2011, 15, 127-131.	3.3	45
123	Silane–parylene coating for improving corrosion resistance of stainless steel 316L implant material. Corrosion Science, 2011, 53, 296-301.	6.6	111
124	Composite ferrite catalyst for ethylbenzene dehydrogenation: Enhancement of potassium stability and catalytic performance by phase selective doping. Applied Catalysis A: General, 2011, 407, 100-105.	4.3	32
125	Guidelines for optimization of catalytic activity of 3d transition metal oxide catalysts in N2O decomposition by potassium promotion. Catalysis Today, 2011, 176, 369-372.	4.4	50
126	Laboratory and pilot scale synthesis, characterization and reactivity of multicomponent cobalt spinel catalyst for low temperature removal of N2O from nitric acid plant tail gases. Catalysis Today, 2011, 176, 365-368.	4.4	26

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127	Effect of potassium on physicochemical properties of CrOx/Al2O3 and CrOx/TiO2 catalysts for oxidative dehydrogenation of isobutane: The role of oxygen chemisorption. Catalysis Today, 2011, 169, 29-35.	4.4	17
128	Effect of potassium addition on catalytic activity of SrTiO3 catalyst for diesel soot combustion. Applied Catalysis B: Environmental, 2011, 101, 169-175.	20.2	90
129	Potassium stabilization in \hat{l}^2 -K2Fe22O34 by Cr and Ce doping studied by field reversal method. Solid State lonics, 2011, 192, 664-667.	2.7	11
130	DIFFUSION, SEGREGATION AND DESORPTION OF POTASSIUM FROM K2Fe22O34 FERRITE. Functional Materials Letters, 2011, 04, 179-182.	1.2	9
131	Irreversible deactivation of styrene catalyst due to potassium loss—Development of antidote via mechanism pinning. Catalysis Today, 2010, 154, 224-228.	4.4	19
132	Periodic Density Functional Theory and Atomistic Thermodynamic Studies of Cobalt Spinel Nanocrystals in Wet Environment: Molecular Interpretation of Water Adsorption Equilibria. Journal of Physical Chemistry C, 2010, 114, 22245-22253.	3.1	103
133	Potassium Promotion of Cobalt Spinel Catalyst for N2O Decomposition—Accounted by Work Function Measurements and DFT Modelling. Catalysis Letters, 2009, 127, 126-131.	2.6	83
134	Optimization of Multicomponent Cobalt Spinel Catalyst for N2O Abatement from Nitric Acid Plant Tail Gases: Laboratory and Pilot Plant Studies. Catalysis Letters, 2009, 130, 637-641.	2.6	34
135	The modifications of copper work function by layer-by-layer deposition of [W(CN)8]4â^ – Co2+ bimetallic nanolayers. Polyhedron, 2009, 28, 473-478.	2.2	2
136	Metal release and formation of surface precipitate at stainless steel grade 316 and Hanks solution interface – Inflammatory response and surface finishing effects. Corrosion Science, 2009, 51, 1157-1162.	6.6	38
137	Energy-pooling transitions to doubly excited K atoms at a promoted iron-oxide catalyst surface: more than 30 eV available for reaction. Physical Chemistry Chemical Physics, 2009, 11, 4351.	2.8	17
138	Strong electronic promotion of Co3O4 towards N2O decomposition by surface alkali dopants. Catalysis Communications, 2009, 10, 1062-1065.	3.3	125
139	Selective N2O Removal from the Process Gas of Nitric Acid Plants Over Ceramic 12CaO·Â7Al2O3 Catalyst. Catalysis Letters, 2008, 126, 72-77.	2.6	45
140	Experimental and DFT studies of N2O decomposition over bare and Co-doped magnesium oxideâ€"insights into the role of active sites topology in dry and wet conditions. Catalysis Today, 2008, 137, 423-428.	4.4	33
141	Decomposition of N2O over the surface of cobalt spinel: A DFT account of reactivity experiments. Catalysis Today, 2008, 137, 418-422.	4.4	92
142	Hydrodenitrogenation of indole over Mo2C catalyst: Insights into mechanistic events through DFT modeling. Catalysis Today, 2007, 119, 39-43.	4.4	21
143	Computational spectroscopy and DFT investigations into nitrogen and oxygen bond breaking and bond making processes in model deNOx and deN2O reactions. Catalysis Today, 2007, 119, 219-227.	4.4	46
144	Reverse effect of doping on stability of principal components of styrene catalyst: KFeO2 and K2Fe22O34. Journal of Catalysis, 2007, 247, 238-244.	6.2	36

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145	In situ monitoring of bare and K-doped Mo2C catalysts surface depassivation based on emission of electrons and K+ ions. Applied Surface Science, 2006, 252, 4129-4137.	6.1	6
146	Quenching of potassium loss from styrene catalyst: Effect of Cr doping on stabilization of the K2Fe22O34 active phase. Journal of Catalysis, 2006, 239, 137-144.	6.2	40
147	How the iron oxide catalyst for EBDH is stabilized via Mn addition. Journal of Catalysis, 2004, 221, 650-652.	6.2	15
148	Changes in surface composition of Fe-Si-Cr-K oxide alkylation catalyst: the marked role of potassium ferrites. Research on Chemical Intermediates, 2004, 30, 337-342.	2.7	1
149	High Pressure Desorption of K+from Iron Ammonia Catalyst – Migration of the Promoter Towards Fe Active Planes. Catalysis Letters, 2004, 95, 93-97.	2.6	6
150	Kinetic model of indole HDN over molybdenum carbide: influence of potassium on early and late denitrogenation pathways. Catalysis Today, 2004, 90, 115-119.	4.4	15
151	Modification of Electronic Properties of Mo2C Catalyst by Potassium Doping:Â Impact on the Reactivity in Hydrodenitrogenation Reaction of Indole. Journal of Physical Chemistry B, 2004, 108, 2885-2892.	2.6	31
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