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**Strong dispersion effect of cobalt spinel active phase spread over ceria for catalytic N<sub>2</sub>O decomposition: The role of the interface periphery**

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**Applied Catalysis B: Environmental, 2016, 180, 622-629.**

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#	Paper	IF	Citations
94	The use of CeO <sub>2</sub> -Co <sub>3</sub> O <sub>4</sub> oxides as a catalyst for the reduction of N <sub>2</sub> O emission. <i>E3S Web of Conferences</i> , <b>2016</b> , 10, 00130	0.5	1
93	In situ and operando spectroscopic studies of sonically aided catalysts for biogas exhaust abatement. <i>Journal of Molecular Structure</i> , <b>2016</b> , 1126, 132-140	3.4	10
92	Bifunctional H <sub>2</sub> WO <sub>4</sub> /TS-1 catalysts for direct conversion of cyclohexane to adipic acid: Active sites and reaction steps. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 192, 325-341	21.8	43
91	Primary role of electron work function for evaluation of nanostructured titania implant surface against bacterial infection. <i>Materials Science and Engineering C</i> , <b>2016</b> , 66, 100-105	8.3	13
90	Ceria-Based Materials in Catalysis: Historical Perspective and Future Trends. <i>Fundamental Theories of Physics</i> , <b>2016</b> , 50, 209-242	0.8	27
89	High-surface-area activated red mud supported Co <sub>3</sub> O <sub>4</sub> catalysts for efficient catalytic oxidation of CO. <i>RSC Advances</i> , <b>2016</b> , 6, 94748-94755	3.7	12
88	Recent Advances in Catalytic Decomposition of N <sub>2</sub> O on Noble Metal and Metal Oxide Catalysts. <i>Catalysis Surveys From Asia</i> , <b>2016</b> , 20, 121-132	2.8	40
87	Catalytic Decomposition of N <sub>2</sub> O over Co/Ti Oxide Catalysts: Interaction between Co and Ti Oxide. <i>ChemCatChem</i> , <b>2016</b> , 8, 2155-2164	5.2	27
86	Thermal stability and repartition of potassium promoter between the support and active phase in the K-Co <sub>2.6</sub> Zn <sub>0.4</sub> O <sub>4</sub> /Al <sub>2</sub> O <sub>3</sub> catalyst for N <sub>2</sub> O decomposition: Crucial role of activation temperature on catalytic performance. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 205, 597-604	21.8	27
85	Synergistic effect of CeO <sub>2</sub> modified TiO <sub>2</sub> photocatalyst on the enhancement of visible light photocatalytic performance. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 714, 560-566	5.7	68
84	Cobalt Oxides Supported Over Ceria/Zirconia Coated Cordierite Monoliths as Catalysts for Deep Oxidation of Ethanol and N <sub>2</sub> O Decomposition. <i>Catalysis Letters</i> , <b>2017</b> , 147, 1379-1391	2.8	15
83	Interaction between Ru and Co <sub>3</sub> O <sub>4</sub> for promoted catalytic decomposition of N <sub>2</sub> O over the Ru <sub>x</sub> -Co <sub>3</sub> O <sub>4</sub> catalysts. <i>Molecular Catalysis</i> , <b>2017</b> , 435, 174-181	3.3	19
82	Catalytic decomposition of N <sub>2</sub> O on inorganic oxides: Effect of doping with Au nanoparticles. <i>Molecular Catalysis</i> , <b>2017</b> , 436, 78-89	3.3	16
81	CuO-CeO <sub>2</sub> mixed oxide catalyst for the catalytic decomposition of N <sub>2</sub> O in the presence of oxygen. <i>Catalysis Today</i> , <b>2017</b> , 297, 78-83	5.3	23
80	CuO nanoparticles supported by ceria for NO <sub>x</sub> -assisted soot oxidation: insight into catalytic activity and sintering. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 216, 41-58	21.8	58
79	Catalytically active ceria-supported cobalt-manganese oxide nanocatalysts for oxidation of carbon monoxide. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 14533-14542	3.6	17
78	Influence of preparation method on dispersion of cobalt spinel over alumina extrudates and the catalyst deN <sub>2</sub> O activity. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 210, 34-44	21.8	24

77	Catalytic decomposition of N <sub>2</sub> O over NiO-CeO <sub>2</sub> mixed oxide catalyst. <i>Catalysis Today</i> , <b>2017</b> , 293-294, 56-60	5.3	15
76	Influence of morphology on basicity of CeO <sub>2</sub> and its use in 2-chloroethyl ethyl sulfide degradation. <i>Journal of Rare Earths</i> , <b>2017</b> , 35, 970-976	3.7	17
75	On the selection of the best polymorph of Al <sub>2</sub> O <sub>3</sub> carriers for supported cobalt nano-spinel catalysts for N <sub>2</sub> O abatement: an interplay between preferable surface spreading and damaging active phase-support interaction. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 5723-5732	5.5	19
74	Facile synthesis of ordered CeO <sub>2</sub> nanorod assemblies: Morphology and reactivity. <i>Materials Chemistry and Physics</i> , <b>2017</b> , 201, 139-146	4.4	18
73	Optimization of cesium and potassium promoter loading in alkali-doped Zn <sub>0.4</sub> Co <sub>2.6</sub> O <sub>4</sub> /Al <sub>2</sub> O <sub>3</sub> catalysts for N <sub>2</sub> O abatement. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , <b>2017</b> , 121, 645-655	1.6	12
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70	Effect of precipitants on the catalytic activity of Co <sub>3</sub> Fe composite oxide for N <sub>2</sub> O catalytic decomposition. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , <b>2018</b> , 123, 707-721	1.6	16
69	Effect of SnO <sub>2</sub> on the structure and catalytic performance of Co <sub>3</sub> O <sub>4</sub> for N <sub>2</sub> O decomposition. <i>Catalysis Communications</i> , <b>2018</b> , 111, 70-74	3.2	31
68	Characterization of Co and Fe-MCM-56 catalysts for NH-SCR and NO decomposition: An in situ FTIR study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2018</b> , 196, 281-288	4.4	14
67	Nanostructured equimolar ceria-praseodymia for NO <sub>x</sub> -assisted soot oxidation: Insight into Pr dominance over Pt nanoparticles and metal-support interaction. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 226, 147-161	21.8	41
66	Promotion of Ag for Co <sub>3</sub> O <sub>4</sub> catalyzing N <sub>2</sub> O decomposition under simulated real reaction conditions. <i>Chemical Engineering Journal</i> , <b>2018</b> , 334, 800-806	14.7	33
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64	The core-shell type Co <sub>0.24</sub> Ba catalyst with high activity for N <sub>2</sub> O decomposition. <i>Molecular Catalysis</i> , <b>2018</b> , 460, 69-73	3.3	6
63	Dynamics and Selectivity of N <sub>2</sub> O Formation/Reduction During Regeneration Phase of Pt-Based Catalysts. <i>Topics in Catalysis</i> , <b>2018</b> , 61, 1672-1683	2.3	3
62	MOF-derived hollow porous Ni/CeO <sub>2</sub> octahedron with high efficiency for N <sub>2</sub> O decomposition. <i>Chemical Engineering Journal</i> , <b>2018</b> , 349, 72-81	14.7	34
61	Low content of CoO <sub>x</sub> supported on nanocrystalline CeO <sub>2</sub> for toluene combustion: The importance of interfaces between active sites and supports. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 240, 329-336	21.8	78
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59	Molecular-level understanding of reaction path optimization as a function of shape concerning the metal-support interaction effect of Co/CeO <sub>2</sub> on water-gas shift catalysis. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 4928-4937	5.5	11
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50	Effects of morphology on electrocatalytic activity of CeO <sub>2</sub> nanomaterials. <i>Microchemical Journal</i> , <b>2019</b> , 148, 42-50	4.8	10
49	Lean methane oxidation over Co <sub>3</sub> O <sub>4</sub> /Ce <sub>0.75</sub> Zr <sub>0.25</sub> catalysts at low-temperature: Synergetic effect of catalysis and electric field. <i>Chemical Engineering Journal</i> , <b>2019</b> , 369, 660-671	14.7	19
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47	Perovskite-based catalysts for the control of nitrogen oxide emissions from diesel engines. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 2057-2077	5.5	20
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45	Removal of Nitrous Oxide in Nitric Acid Production. <i>Kinetics and Catalysis</i> , <b>2019</b> , 60, 744-760	1.5	7
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41	Enhanced performance of BiFeO <sub>3</sub> @nitrogen doped TiO <sub>2</sub> core-shell structured nanocomposites: Synergistic effect towards solar cell amplification. <i>Arabian Journal of Chemistry</i> , <b>2020</b> , 13, 2611-2619	5.9	5
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27	Co/Hydroxyapatite catalysts for N <sub>2</sub> O catalytic decomposition: Design of well-defined active sites with geometrical and spacing effects. <i>Molecular Catalysis</i> , <b>2021</b> , 501, 111370	3.3	0
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16	Catalytic and Photocatalytic Properties of Oxide Spinel. <b>2019</b> , 1701-1750		6
15	Fabrication of Hollow Spheres of Copper-Cerium Composite Oxide for Catalytic Decomposition of Nitrous Oxide. <i>Nihon Enerugi Gakkaishi/Journal of the Japan Institute of Energy</i> , <b>2020</b> , 99, 52-56	0.5	1
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13	Engineering order mesoporous CeCoO <sub>x</sub> catalyst via in-situ confined encapsulation strategy for VOCs catalytic combustion. <i>Molecular Catalysis</i> , <b>2022</b> , 519, 112149	3.3	
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11	Tuning the properties of the cobalt-zeolite nanocomposite catalyst by potassium: Switching between dehydration and dehydrogenation of ethanol. <i>Journal of Catalysis</i> , <b>2022</b> , 407, 364-380	7.3	2
10	Characterization of CeO <sub>2</sub> /WO <sub>3</sub> /TiO <sub>2</sub> Catalysts Prepared by Adding PEO for Selective Catalytic Reduction of NO <sub>x</sub> with NH <sub>3</sub> . <i>Catalysis Letters</i> ,	2.8	
9	Superior performance of K/Co <sub>2</sub> AlO <sub>4</sub> catalysts for the oxidative dehydrogenation of ethylbenzene to styrene with N <sub>2</sub> O as an oxidant. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2022</b> ,	6.3	1
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7	Cobalt-Ceria Catalysts for the Methanol Decomposition: Insights in the Long-Term Stability and Methanol Interaction. <i>Topics in Catalysis</i> ,	2.3	
6	High-Temperature Abatement of N <sub>2</sub> O over FeO <sub>x</sub> /CeO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> Catalysts: The Effects of Oxygen Mobility. <b>2022</b> , 12, 938		2

- 5 Strong Electronic Orbit Coupling between Cobalt and Single-Atom Praseodymium for Boosted Nitrous Oxide Decomposition on Co<sub>3</sub>O<sub>4</sub> Catalyst. 1
- 4 On the Effect of the Synthesis Route of the Support in Co<sub>3</sub>O<sub>4</sub>/CeO<sub>2</sub> Catalysts for the Complete Oxidation of Methane. **2022**, 61, 17854-17865 0
- 3 Kinetics of Oxygen Exchange and N<sub>2</sub>O Decomposition Reaction over MeOx/CeO<sub>2</sub> (Me = Fe, Co, Ni) Catalysts. **2023**, 16, 929 0
- 2 Fe-Promoted Copper Oxide Thin-Film Catalysts for the Catalytic Reduction of N<sub>2</sub>O in the Presence of Methane. **2023**, 32, 531-541 0
- 1 Effect of ceria content in Ni/Ce<sub>z</sub>Al catalyst on catalytic performance and carbon/coke formation in dry reforming of CH<sub>4</sub>. **2023**, 0