

Mohamed I Zaki

List of Publications by Year in descending order

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139
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139
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139
times ranked

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#	ARTICLE	IF	CITATIONS
1	In situ FTIR spectra of pyridine adsorbed on SiO ₂ –Al ₂ O ₃ , TiO ₂ , ZrO ₂ and CeO ₂ : general considerations for the identification of acid sites on surfaces of finely divided metal oxides. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001, 190, 261-274.	2.3	485
2	Surface Reactions of Acetone on Al ₂ O ₃ , TiO ₂ , ZrO ₂ , and CeO ₂ : IR Spectroscopic Assessment of Impacts of the Surface Acid–Base Properties. <i>Langmuir</i> , 2001, 17, 768-774.	1.6	198
3	Carbon monoxide – A low temperature infrared probe for the characterization of hydroxyl group properties on metal oxide surfaces. <i>Materials Chemistry and Physics</i> , 1987, 17, 201-215.	2.0	183
4	Oxide-catalyzed conversion of acetic acid into acetone: an FTIR spectroscopic investigation. <i>Applied Catalysis A: General</i> , 2003, 243, 81-92.	2.2	164
5	Promotion of the hydrogen peroxide decomposition activity of manganese oxide catalysts. <i>Applied Catalysis A: General</i> , 1999, 181, 171-179.	2.2	159
6	Microemulsion-Based Synthesis of CeO ₂ Powders with High Surface Area and High-Temperature Stabilities. <i>Langmuir</i> , 2004, 20, 11223-11233.	1.6	142
7	An infrared spectroscopic study of the adsorption and mechanism of surface reactions of 2-propanol on ceria. <i>Journal of Catalysis</i> , 1983, 80, 114-122.	3.1	109
8	An infrared spectroscopy study of carbon monoxide adsorption on α -chromia surfaces: Probing oxidation states of coordinatively unsaturated surface cations. <i>Journal of Catalysis</i> , 1989, 119, 311-321.	3.1	98
9	Surface Chemistry of Acetone on Metal Oxides: IR Observation of Acetone Adsorption and Consequent Surface Reactions on Silica–Alumina versus Silica and Alumina. <i>Langmuir</i> , 2000, 16, 430-436.	1.6	93
10	Controlled Synthesis of ZrO ₂ Nanoparticles with Tailored Size, Morphology and Crystal Phases via Organic/Inorganic Hybrid Films. <i>Scientific Reports</i> , 2018, 8, 3695.	1.6	92
11	Physicochemical investigation of calcined chromia-coated silica and alumina catalysts: Characterization of chromium-oxygen species. <i>Applied Catalysis</i> , 1986, 21, 359-377.	1.1	87
12	Infrared spectroscopic studies of the reactions of alcohols over group IVB metal oxide catalysts. Part 3. Ethanol over TiO ₂ , ZrO ₂ and HfO ₂ , and general conclusions from parts 1 to 3. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1991, 87, 2661-2668.	1.7	75
13	Structure and surface properties of supported oxides. <i>Materials Chemistry and Physics</i> , 1985, 13, 301-314.	2.0	71
14	IR Investigation of the Oxidation of Propane and Likely C ₃ and C ₂ Products over Group IVB Metal Oxide Catalysts. <i>Journal of Physical Chemistry B</i> , 2002, 106, 12747-12756.	1.2	71
15	Infrared spectroscopic studies of the reactions of alcohols over group IVB metal oxide catalysts. Part 1. Propan-2-ol over TiO ₂ , ZrO ₂ and HfO ₂ . <i>Journal of the Chemical Society Faraday Transactions I</i> , 1989, 85, 1723.	1.0	69
16	Infrared spectroscopic studies of the reactions of alcohols over group IVB metal oxide catalysts. Part 2. Methanol over TiO ₂ , ZrO ₂ and HfO ₂ . <i>Journal of the Chemical Society, Faraday Transactions</i> , 1991, 87, 2655-2659.	1.7	69
17	Influence of phosphonation and phosphation on surface acid–base and morphological properties of CaO as investigated by in situ FTIR spectroscopy and electron microscopy. <i>Journal of Colloid and Interface Science</i> , 2006, 303, 9-17.	5.0	65
18	Adsorption and surface reactions of pyridine on pure and doped ceria catalysts as studied by infrared spectroscopy. <i>Journal of Molecular Catalysis</i> , 1989, 51, 209-220.	1.2	63

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19	Qualitative and Quantitative Assessments of Acid and Base Sites Exposed on Polycrystalline MgO Surfaces: A Thermogravimetric, Calorimetric, and in-Situ FTIR Spectroscopic Study Combination. <i>Journal of Physical Chemistry B</i> , 2004, 108, 13379-13386.	1.2	63
20	Low-temperature Synthesis of Hausmannite Mn ₃ O ₄ . <i>Journal of Materials Science Letters</i> , 1999, 18, 209-211.	0.5	59
21	Synthesis of high surface area titania powders via basic hydrolysis of titanium(IV) isopropoxide. <i>Powder Technology</i> , 1997, 92, 233-239.	2.1	57
22	Ketonization of acetic acid vapour over polycrystalline magnesia: in situ Fourier transform infrared spectroscopy and kinetic studies. <i>Journal of Catalysis</i> , 2005, 230, 109-122.	3.1	56
23	Characterization of the thermal genesis course of manganese oxides from inorganic precursors. <i>Thermochimica Acta</i> , 1992, 210, 103-121.	1.2	55
24	In Situ FTIR Spectroscopic Study of 2-Propanol Adsorptive and Catalytic Interactions on Metal-Modified Aluminas. <i>Langmuir</i> , 2001, 17, 4025-4034.	1.6	55
25	Monopropellant decomposition catalysts. <i>Applied Catalysis A: General</i> , 2002, 234, 145-153.	2.2	51
26	Exploring anatase-TiO ₂ doped dilutely with transition metal ions as nano-catalyst for H ₂ O ₂ decomposition: Spectroscopic and kinetic studies. <i>Applied Catalysis A: General</i> , 2013, 452, 214-221.	2.2	48
27	Chromia on Silica and Alumina Catalysts. <i>Zeitschrift Fur Physikalische Chemie</i> , 1991, 171, 75-96.	1.4	47
28	Bulk and surface characteristics of pure and alkalinized Mn ₂ O ₃ : TG, IR, XRD, XPS, specific adsorption and redox catalytic studies. <i>New Journal of Chemistry</i> , 1998, 22, 875-882.	1.4	46
29	Synthesis and surface characterization of todorokite-type microporous manganese oxides: implications for shape-selective oxidation catalysts. <i>Microporous and Mesoporous Materials</i> , 2004, 67, 43-52.	2.2	43
30	Acidity-Reactivity Relationships in Catalytic Esterification over Ammonium Sulfate-Derived Sulfated Zirconia. <i>Catalysts</i> , 2017, 7, 204.	1.6	41
31	Recovery of ethene-selective FeO _x /Al ₂ O ₃ ethanol dehydration catalyst from industrial chemical wastes. <i>Applied Catalysis A: General</i> , 2000, 199, 83-92.	2.2	40
32	Surface composition, charge and texture of active alumina powders recovered from aluminum dross tailings chemical waste. <i>Powder Technology</i> , 2003, 132, 137-144.	2.1	40
33	Interfacial chemistry in the preparation of catalytic potassium-modified aluminas. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993, 89, 2527.	1.7	39
34	Thermal decomposition and creation of reactive solid surfaces. <i>Journal of Thermal Analysis</i> , 1986, 31, 825-834.	0.7	37
35	Influence of CuO _x additives on CO oxidation activity and related surface and bulk behaviours of Mn ₂ O ₃ , Cr ₂ O ₃ and WO ₃ catalysts. <i>Applied Catalysis A: General</i> , 2000, 198, 247-259.	2.2	37
36	Generation of metal oxide nanoparticles in optimised microemulsions. <i>Journal of Colloid and Interface Science</i> , 2007, 312, 68-75.	5.0	37

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37	Formation of carboxy species at CO/Al ₂ O ₃ interfaces. Impacts of surface hydroxylation, potassium alkalization and hydrogenation as assessed by in situ FTIR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 2502.	1.3	35
38	Characterization of nano-cerias synthesized in microemulsions by N ₂ sorptiometry and electron microscopy. <i>Journal of Colloid and Interface Science</i> , 2006, 302, 501-508.	5.0	35
39	Temperature-programmed reduction of calcined chromia-coated alumina and silica catalysts: probing chromium (VI)-oxygen species. <i>Thermochimica Acta</i> , 1996, 285, 167-179.	1.2	34
40	CO and CH ₄ total oxidation over manganese oxide supported on ZrO ₂ , TiO ₂ , TiO ₂ •Al ₂ O ₃ and SiO ₂ •Al ₂ O ₃ catalysts. <i>New Journal of Chemistry</i> , 1999, 23, 1197-1202.	1.4	34
41	Surface Reactivity of Iron Oxide Pigmentary Powders toward Atmospheric Components: XPS, FESEM, and Gravimetry of CO and CO ₂ Adsorption. <i>Journal of Colloid and Interface Science</i> , 1997, 194, 482-488.	5.0	33
42	Chromia on Silica and Alumina Catalysts: Temperature-Programmed Reduction and Structure of Surface Chromates. <i>Zeitschrift Fur Physikalische Chemie</i> , 1994, 186, 231-244.	1.4	32
43	Synthesis and characterization of catalytic titanias via hydrolysis of titanium (IV) isopropoxide. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1998, 132, 31-44.	2.3	32
44	Recovery of high surface area alumina from aluminium dross tailings. <i>Journal of Chemical Technology and Biotechnology</i> , 2000, 75, 394-402.	1.6	32
45	Nonstoichiometry and surface characterization of chromia gel. <i>Journal of Colloid and Interface Science</i> , 1981, 81, 468-476.	5.0	31
46	Ultraviolet photodesorption of CO from NiO as measured by infrared spectroscopy. <i>Surface Science</i> , 1991, 255, 295-302.	0.8	31
47	Preparation and characterization of sol-gel derived mesoporous titania spheroids. <i>Powder Technology</i> , 2001, 120, 256-263.	2.1	31
48	HT-XRD, IR and Raman characterization studies of metastable phases emerging in the thermal genesis course of monoclinic zirconia via amorphous zirconium hydroxide: impacts of sulfate and phosphate additives. <i>Thermochimica Acta</i> , 2002, 387, 29-38.	1.2	31
49	Temperature-programmed and X-ray diffractometry studies of hydrogen-reduction course and products of WO ₃ powder: Influence of reduction parameters. <i>Thermochimica Acta</i> , 2011, 523, 90-96.	1.2	30
50	Surface chemical and photocatalytic consequences of Ca-doping of BiFeO ₃ as probed by XPS and H ₂ O ₂ decomposition studies. <i>Applied Surface Science</i> , 2014, 317, 929-934.	3.1	30
51	Effect of foreign ion additives on ceria surface reactivity towards isopropanol adsorption and decomposition: An infrared investigation. <i>Journal of Molecular Catalysis</i> , 1990, 57, 367-378.	1.2	29
52	Thermogravimetry of WO ₃ reduction in hydrogen: Kinetic characterization of autocatalytic effects. <i>Powder Technology</i> , 1993, 74, 31-37.	2.1	29
53	Surface Reactivity of Iron Oxide Pigmentary Powders toward Atmospheric Components: XPS and Gravimetry of Oxygen and Water Vapor Adsorption. <i>Journal of Colloid and Interface Science</i> , 1996, 183, 320-328.	5.0	28
54	A novel synthesis of high-area alumina via H ₂ O ₂ -precipitated boehmite from sodium aluminate solutions. <i>Journal of Chemical Technology and Biotechnology</i> , 1998, 72, 320-328.	1.6	28

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55	Thermal decomposition and the creation of reactive solid surfaces. V. The genesis course of the WO ₃ catalyst from its ammonium paratungstate precursor. <i>Thermochimica Acta</i> , 1988, 129, 187-196.	1.2	27
56	Decomposition of Cd(CH ₃ COO) ₂ · 2H ₂ O and creation of reactive solid surfaces - a spectrothermal investigation. <i>Reactivity of Solids</i> , 1990, 8, 197-208.	0.3	27
57	Stability of surface chromate " A physicochemical investigation in relevance to environmental reservations about calcined chromia catalysts. <i>Applied Catalysis A: General</i> , 1998, 171, 315-324.	2.2	27
58	Dawsonite-Type Precursors for Catalytic Al, Cr, and Fe Oxides: % Synthesis and Characterization. <i>Chemistry of Materials</i> , 2005, 17, 6797-6804.	3.2	27
59	A spectroscopic investigation of isopropanol and methylbutynol as infrared reactive probes for base sites on polycrystalline metal oxide surfaces. <i>Journal of Molecular Catalysis A</i> , 2002, 178, 125-137.	4.8	26
60	Characterization of mesoporous VO _x /MCM-41 composite materials obtained via post-synthesis impregnation. <i>Applied Surface Science</i> , 2010, 256, 6179-6185.	3.1	26
61	Effect of processing parameters on the kinetics of decomposition of certain simple anhydrous carbonates. <i>Powder Technology</i> , 1982, 33, 161-165.	2.1	25
62	Supported rhodium catalysts. Support effects on state and dispersion of the rhodium. <i>Surface and Interface Analysis</i> , 1988, 12, 239-246.	0.8	25
63	Low-Temperature Catalytic CO Oxidation Over Non-Noble, Efficient Chromia in Reduced Graphene Oxide and Graphene Oxide Nanocomposites. <i>Catalysts</i> , 2020, 10, 105.	1.6	25
64	X-Ray Photoelectron Spectroscopy and Diffractometry of MnO _x Catalysts: Surface to Bulk Composition Relationships. <i>Zeitschrift Fur Physikalische Chemie</i> , 1992, 176, 97-116.	1.4	24
65	Surface texture and specific adsorption sites of sol-gel synthesized anatase TiO ₂ nanoparticles. <i>Materials Research Bulletin</i> , 2010, 45, 1470-1475.	2.7	24
66	Characterization of ammonium tungsten bronze [(NH ₄) _{0.33} WO ₃] in the thermal decomposition course of ammonium paratungstate. <i>Journal of Analytical and Applied Pyrolysis</i> , 2000, 56, 23-31.	2.6	23
67	Particle characteristics and reduction behavior of synthetic magnetite. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 355, 246-253.	1.0	21
68	Thermal decomposition and creation of reactive solid surfaces. <i>Thermochimica Acta</i> , 1985, 95, 73-85.	1.2	20
69	Thermal genesis course of iron oxide pigmentary powders from steel-pickling chemical waste. <i>Powder Technology</i> , 1990, 63, 87-96.	2.1	20
70	Chromia on Silica and Alumina Catalysts: Chromia Dispersion as Determined by N ₂ -Adsorption Measurements. <i>Zeitschrift Fur Physikalische Chemie</i> , 1991, 173, 201-215.	1.4	20
71	Water sorption in relation to surface defect structure of calcined chromia gel. <i>Journal of Colloid and Interface Science</i> , 1982, 88, 502-511.	5.0	18
72	Surface contribution to the interfacial chemistry of potassium modified oxide catalysts Silica-alumina versus silica and alumina. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998, 94, 1149-1156.	1.7	18

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73	Spectro-thermal investigation of the decomposition intermediates developed throughout reduction of ammonium paratungstate. <i>Thermochimica Acta</i> , 2000, 343, 139-143.	1.2	18
74	Heterogeneous and/or homogeneous chromia-catalysed decomposition of hydrogen peroxide. <i>Surface Technology</i> , 1981, 12, 317-326.	0.4	17
75	The catalytic decomposition of 2-propanol on calcined chromia: the nature of the active sites. <i>Applied Catalysis</i> , 1982, 4, 189-200.	1.1	17
76	Structural and physicochemical changes occurring during the thermal genesis of cerium(IV) oxide catalyst from diammonium hexanitratocerate(IV) precursor. <i>Reactivity of Solids</i> , 1986, 2, 107-123.	0.3	17
77	Chemical and Morphological Consequences of Acidification of Pure, Phosphated, and Phosphonated CaO: Influence of CO ₂ Adsorption. <i>Langmuir</i> , 2008, 24, 6745-6753.	1.6	17
78	Acid properties of silica and alumina surfaces as probed by thermogravimetry and differential scanning calorimetry of temperature-programmed desorption of pyridine. <i>Thermochimica Acta</i> , 1992, 202, 269-280.	1.2	16
79	Structure-acidity correlation of supported tungsten(VI)-oxo-species: FT-IR and TPD studies of adsorbed pyridine and catalytic decomposition of 2-propanol. <i>Applied Surface Science</i> , 2014, 308, 380-387.	3.1	16
80	Characterization of the powder mixture of the reaction between alumina and barium carbonate. <i>Journal of Materials Science Letters</i> , 1985, 4, 517-522.	0.5	15
81	Acid-leaching and consequent pore structure and bleaching capacity modifications of Egyptian clays. <i>Colloids and Surfaces</i> , 1986, 17, 241-249.	0.9	15
82	Support and additive effects on the state of rhodium catalysts. <i>Journal of Molecular Catalysis</i> , 1989, 55, 55-69.	1.2	15
83	Non-isothermal kinetic and thermodynamic parameters of ammonium paratungstate decomposition—a thermoanalytic study. <i>Thermochimica Acta</i> , 1989, 138, 309-317.	1.2	15
84	Fourier-transform laser Raman spectroscopy of adsorbed pyridine and nature of acid sites on calcined phosphate/Zr(OH) ₄ . <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1998, 139, 81-89.	2.3	15
85	FTIR and electron microscopy observed consequences of HCl and CO ₂ interfacial interactions with synthetic and biological apatites: Influence of hydroxyapatite maturity. <i>Materials Chemistry and Physics</i> , 2019, 221, 332-341.	2.0	15
86	Combined TPR, XRD, and FTIR studies on the reduction behavior of Co ₃ O ₄ . <i>Materials Chemistry and Physics</i> , 2022, 289, 126367.	2.0	14
87	Effect of annealing on the texture of the ZnO-Cr ₂ O ₃ system. <i>Surface Technology</i> , 1980, 11, 215-227.	0.4	13
88	Thermal decomposition and creation of reactive solid surfaces. <i>Thermochimica Acta</i> , 1989, 150, 153-165.	1.2	13
89	Protection of rhodium/alumina catalysts by potassium functionalization of the alumina support. <i>The Journal of Physical Chemistry</i> , 1991, 95, 4028-4033.	2.9	13
90	Title is missing!. <i>Journal of Materials Science Letters</i> , 1997, 17, 27-29.	0.5	13

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91	XPS and in situ IR spectroscopic studies of CO/Rh/Al ₂ O ₃ and CO/Rh/Al ₂ O ₃ at high temperatures: probing the impact of the potassium functionalization of the support. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 1708-1715.	1.3	13
92	A surface study of zirconia-based solid acids by Laser Raman spectroscopy of adsorbed pyridine. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1996, 119, 39-50.	2.3	12
93	Structural and Morphological Consequences of High-Temperature Treatments of Hydroxyapatite in the Absence or Presence of HCl Vapor. <i>Langmuir</i> , 2006, 22, 749-755.	1.6	12
94	Chromia on silica and alumina catalysts: surface structural consequences of interfacial events in the impregnation course of aquated chromium(III) ions. <i>Langmuir</i> , 1992, 8, 727-732.	1.6	11
95	Particle characteristics of thermally recovered iron oxide pigments from steel-pickling chemical waste: Effects of heating variables. <i>Powder Technology</i> , 1992, 70, 183-188.	2.1	11
96	Citrate-mediated sol-gel synthesis of Al-substituted sulfated zirconia catalysts for α -pinene isomerization. <i>Molecular Catalysis</i> , 2018, 458, 206-212.	1.0	11
97	The activity of nickel chromite catalyst. <i>Powder Technology</i> , 1981, 30, 105-110.	2.1	10
98	Thermal decomposition and creation of reactive solid surfaces. I. Characterization of the decomposition products of alkaline earth oxalates. <i>Thermochimica Acta</i> , 1984, 78, 29-38.	1.2	10
99	Surface texture, morphology and chemical composition of hydrothermally synthesized tunnel-structured manganese(IV) oxide. <i>Solid State Sciences</i> , 2001, 3, 427-435.	0.8	10
100	Thermoanalytic resolution of hydrogen-influenced reductive events in the decomposition course of ammonium paratungstate. <i>Thermochimica Acta</i> , 1994, 239, 137-145.	1.2	9
101	TiO ₂ nanoparticle size dependence of porosity, adsorption and catalytic activity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 385, 195-200.	2.3	9
102	Synthesis of MgO nanocatalyst in water-in-oil microemulsion for CO oxidation. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2017, 122, 1213-1229.	0.8	9
103	Thermal and spectroscopic studies of feasibility of rhodium acetate versus chloride as a likely precursor for Rh ^o metal catalysts. <i>Journal of Analytical and Applied Pyrolysis</i> , 2000, 53, 185-193.	2.6	8
104	Low-temperature adsorption of oxygen on calcined chromia: IR spectroscopic and sorptiometric evidence for oxygen-assisted topochemical reduction of surface chromate species. <i>Applied Catalysis A: General</i> , 2004, 265, 229-235.	2.2	8
105	Surface and related bulk properties of titania nanoparticles recovered from aramid-titania hybrid films: A novel attempt. <i>Materials Research Bulletin</i> , 2012, 47, 3308-3316.	2.7	8
106	Effect of the incorporation of foreign ions on the activity of chromia catalysts. <i>Surface Technology</i> , 1981, 14, 289-294.	0.4	7
107	Study of the influence of the impregnation acidity on the structure and properties of molybdena-silica catalysts. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1987, 83, 2835.	1.0	7
108	Permanganic acid: A novel precursor for the preparation of manganese oxide catalysts. <i>Studies in Surface Science and Catalysis</i> , 1995, 91, 699-706.	1.5	7

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109	Low-Temperature IR Spectroscopy of CO Adsorption on Calcined Supported CeO ₂ : Probing Adsorbed Species and Adsorbing Sites. <i>Adsorption Science and Technology</i> , 1997, 15, 377-389.	1.5	7
110	Thermal decomposition course of Eu(CH ₃ COO) ₃ ·4H ₂ O and the reactivity at the gas/solid interface thus established. <i>Journal of Analytical and Applied Pyrolysis</i> , 2011, 92, 137-142.	2.6	7
111	In situ FTIR spectroscopic assessment of methylbutynol catalytic conversion products in relation to the surface acid-base properties of systematically modified aluminas. <i>Surface Science</i> , 2016, 652, 269-277.	0.8	7
112	Texture assessment of ceria by analysis of nitrogen sorption isotherms and high-resolution electron microscopy. <i>Journal of Colloid and Interface Science</i> , 1988, 126, 450-462.	5.0	6
113	Chromia on Silica and Alumina Catalysts: CO Oxidation Activity. <i>Zeitschrift Fur Physikalische Chemie</i> , 1998, 203, 131-142.	1.4	6
114	Hydrothermal synthesis attempts of dawsonite-type hydroxymetalocarbonate precursor compounds for catalytic Ho, Sm, and La oxides. <i>Materials Research Bulletin</i> , 2008, 43, 16-29.	2.7	6
115	Theoretical Study of the Adsorption of 2-Propanol onto Silica Surfaces on the Basis of <i>Ab Initio</i> and Density Functional Calculations. <i>Adsorption Science and Technology</i> , 2009, 27, 215-253.	1.5	6
116	Kinetics of formation of barium tungstate in equimolar powder mixture of BaCO ₃ and WO ₃ . <i>Journal of Thermal Analysis and Calorimetry</i> , 2010, 100, 43-49.	2.0	6
117	Spectro-thermal characterization of the nature of sulfate groups immobilized on tetragonal zirconium oxide: Consequences of doping the oxide with Al or Mg cations. <i>Thermochimica Acta</i> , 2019, 674, 1-9.	1.2	6
118	The effect of surface non-stoichiometry on the texture of the NiO-Cr ₂ O ₃ system. <i>Surface Technology</i> , 1982, 17, 175-184.	0.4	5
119	Effect of the incorporation of foreign ions on structural characteristics of calcined chromia gel. <i>Colloids and Surfaces</i> , 1983, 6, 135-142.	0.9	5
120	Effect of calcination and/or incorporation of trivalent metal ions on the physicochemical properties of nickel oxide catalyst. <i>Surface Technology</i> , 1985, 25, 287-296.	0.4	5
121	Low-temperature synthesis of magnesium chromite spinel via suspension of Mg ₅ (CO ₃) ₄ (OH) ₂ · $\frac{1}{2}$ 4H ₂ O in aqueous Cr(III) solution. <i>Journal of Materials Science Letters</i> , 1994, 13, 505-507.	0.5	5
122	Texture and morphology of titania particles prepared by vapor-phase pyrolysis of titanium tetra-isopropoxide. <i>Journal of Analytical and Applied Pyrolysis</i> , 1997, 42, 123-133.	2.6	5
123	Surface and Bulk Properties of Alumina Recovered Under Various Conditions from Aluminum Dross Tailings Chemical Waste Versus Bauxite Ore. <i>Journal of Materials Research</i> , 2002, 17, 1721-1728.	1.2	5
124	Kinetic and characterization studies of the formation of barium monomolybdate in equimolar powder mixture of BaCO ₃ and MoO ₃ . <i>Journal of Materials Research</i> , 2003, 18, 2339-2349.	1.2	5
125	Characterization studies of physicochemical modifications conceded by equimolar-mixed chromia and barium carbonate powders as a function of temperature. <i>Thermochimica Acta</i> , 2009, 483, 8-14.	1.2	5
126	A thermogravimetric study of the solid-state reaction between alumina and strontium carbonate. <i>Journal of Thermal Analysis</i> , 1985, 30, 129-134.	0.7	4

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127	Potassium-modified osmium/alumina catalysts. <i>Journal of Molecular Catalysis</i> , 1988, 44, 295-311.	1.2	4
128	A thermogravimetric study of the kinetics of the solid state reaction between alumina and barium carbonate. <i>Thermochimica Acta</i> , 1984, 74, 167-173.	1.2	3
129	The standard but misleading nitrogen adsorption isotherm and texture assessment of porous silicas and aluminas. <i>Surface Technology</i> , 1985, 26, 253-259.	0.4	3
130	Structure-reduction correlation of supported tungsten(VI)-oxo-species. <i>Applied Surface Science</i> , 2013, 282, 898-907.	3.1	3
131	High-temperature stable transition aluminas nanoparticles recovered from sol-gel processed chitosan- AlO_x organic-inorganic hybrid films. <i>Journal of Sol-Gel Science and Technology</i> , 2018, 86, 410-422.	1.1	3
132	Low-temperature synthesis of high-purity BiFeO_3 via carbonized metal citrate xerogel. <i>Journal of Alloys and Compounds</i> , 2020, 843, 155928.	2.8	3
133	Surface Texture of Microcrystalline Tunnel-Structured Manganese(IV) Oxides: Nitrogen Sorption and Electron Microscopy Studies. <i>Adsorption Science and Technology</i> , 2002, 20, 619-632.	1.5	2
134	Assessment of textural consequences of compacting calcined chromia gel by nitrogen sorption isotherms. <i>Colloids and Surfaces</i> , 1987, 23, 1-14.	0.9	1
135	Nitrogen Sorption Study of Phosphation and Dispersion of Lanthanum(III) Oxide on Alumina Catalysts. <i>Adsorption Science and Technology</i> , 2011, 29, 927-941.	1.5	1
136	Na-Influenced Bulk and Surface Properties of the So-Called Iota(γ)-Alumina: Spectroscopy and Microscopy Studies. <i>Frontiers in Chemistry</i> , 2021, 9, 633877.	1.8	1
137	Water-vapour uptake and electrical conduction in chromia. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1982, 78, 2721.	1.0	0
138	Impacts of CuO additive on the CO oxidation activity and related surface and bulk properties of a NANO- CeO_2 Catalyst. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2010, 99, 345.	0.8	0