

Erhard Kemnitz

List of Publications by Year in descending order

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399
papers

10,377
citations

43973

48
h-index

88477

70
g-index

407
all docs

407
docs citations

407
times ranked

5931
citing authors

#	ARTICLE	IF	CITATIONS
1	Amorphous Metal Fluorides with Extraordinary High Surface Areas. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 4251-4254.	7.2	220
2	ESCA, XRD, and IR Characterization of Aluminum Oxide, Hydroxyfluoride, and Fluoride Surfaces in Correlation with Their Catalytic Activity in Heterogeneous Halogen Exchange Reactions. <i>Journal of Catalysis</i> , 1994, 148, 270-280.	3.1	211
3	Application of calcined Mg-Al hydrotalcites for Michael additions: an investigation of catalytic activity and acid-base properties. <i>Journal of Catalysis</i> , 2005, 234, 119-130.	3.1	171
4	Characterization of Catalytically Active Sites on Aluminum Oxides, Hydroxyfluorides, and Fluorides in Correlation with Their Catalytic Behavior. <i>Journal of Catalysis</i> , 1994, 149, 449-457.	3.1	138
5	Fluorinated metal oxides and metal fluorides as heterogeneous catalysts. <i>Progress in Solid State Chemistry</i> , 1998, 26, 97-153.	3.9	138
6	Synthesis and Structure of the Highly Chlorinated [60]Fullerene C ₆₀ Cl ₃₀ with a Drum-Shaped Carbon Cage. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 234-237.	7.2	132
7	Catalytic Hydrodefluorination of Fluoromethanes at Room Temperature by Silylium-like Surface Species. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5328-5332.	7.2	100
8	Novel Sol-Gel Synthesis of Acidic MgF ₂ (OH) Materials. <i>Chemistry - A European Journal</i> , 2008, 14, 11488-11499.	1.7	98
9	Non-aqueous sol-gel synthesis of nano-structured metal fluorides. <i>Journal of Fluorine Chemistry</i> , 2007, 128, 353-368.	0.9	93
10	New magnesium oxide fluorides with hydroxy groups as catalysts for Michael additions. <i>Journal of Materials Chemistry</i> , 2005, 15, 4616.	6.7	91
11	The fluorolytic sol-gel route to metal fluorides—a versatile process opening a variety of application fields. <i>Dalton Transactions</i> , 2008, , 1117.	1.6	91
12	Non-aqueous synthesis of high surface area aluminium fluoride—a mechanistic investigation. <i>Journal of Materials Chemistry</i> , 2005, 15, 588-597.	6.7	89
13	Properties of modified zirconia used as Friedel-Crafts acylation catalysts. <i>Journal of Catalysis</i> , 1998, 177, 164-174.	3.1	86
14	C 1s and Au 4f 7/2 referenced XPS binding energy data obtained with different aluminium oxides, -hydroxides and -fluorides. <i>Fresenius' Journal of Analytical Chemistry</i> , 1997, 358, 175-179.	1.5	79
15	Total oxidation of methane at low temperature over Pd/TiO ₂ /Al ₂ O ₃ : effects of the support and residual chlorine ions. <i>Applied Catalysis B: Environmental</i> , 2004, 50, 59-66.	10.8	79
16	The very strong solid Lewis acids aluminium chlorofluoride (ACF) and bromofluoride (ABF)—Synthesis, structure, and Lewis acidity. <i>Journal of Fluorine Chemistry</i> , 2006, 127, 663-678.	0.9	79
17	Fusing Pentagons in a Fullerene Cage by Chlorination: IPR C ₇₆ Cl ₂₄ . <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5904-5907.	7.2	78
18	Highly selective metal fluoride catalysts for the dehydrohalogenation of 3-chloro-1,1,1,3-tetrafluorobutane. <i>Journal of Catalysis</i> , 2011, 282, 175-182.	3.1	77

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19	Chlorination of C ₈₆ to C ₈₄ Cl ₃₂ with Nonclassical Heptagon-Containing Fullerene Cage Formed by Cage Shrinkage. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 4784-4787.	7.2	75
20	Tailor-Made MgF ₂ -Based Catalysts by Sol-Gel Synthesis. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 4773-4794.	1.0	74
21	Real sol-gel synthesis of catalytically active aluminium fluoride. <i>Journal of Sol-Gel Science and Technology</i> , 2007, 41, 299-311.	1.1	73
22	Aluminium fluoride – the strongest solid Lewis acid: structure and reactivity. <i>Catalysis Science and Technology</i> , 2017, 7, 773-796.	2.1	73
23	Structural Insights into Aluminum Chlorofluoride (ACF). <i>Inorganic Chemistry</i> , 2003, 42, 6474-6483.	1.9	71
24	Consecutive Transformations of Tetrafluoropropenes: Hydrogermylation and Catalytic C–F Activation Steps at a Lewis Acidic Aluminum Fluoride. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16338-16341.	7.2	71
25	Curve fitting of Cr 2p photoelectron spectra of Cr ₂ O ₃ and CrF ₃ . <i>Surface and Interface Analysis</i> , 1995, 23, 887-891.	0.8	68
26	Functionalized partially hydroxylated MgF ₂ as catalysts for the dehydration of d-xylose to furfural. <i>Journal of Catalysis</i> , 2013, 305, 81-91.	3.1	68
27	Transparent MgF ₂ -films by sol-gel coating: Synthesis and optical properties. <i>Thin Solid Films</i> , 2008, 516, 4175-4177.	0.8	67
28	Nanoscale metal fluorides: a new class of heterogeneous catalysts. <i>Catalysis Science and Technology</i> , 2015, 5, 786-806.	2.1	67
29	NbF ₅ -AlF ₃ Catalysts: Design, Synthesis, and Application in Lactic Acid Synthesis from Cellulose. <i>ACS Catalysis</i> , 2015, 5, 3013-3026.	5.5	66
30	Nanoscale CaF ₂ doped with Eu ³⁺ and Tb ³⁺ through fluorolytic sol-gel synthesis. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8607-8613.	2.7	65
31	Vibrational Analysis Study of Aluminum Trifluoride Phases. <i>Journal of Physical Chemistry A</i> , 2007, 111, 5813-5819.	1.1	63
32	Sol-gel-fluorination synthesis of amorphous magnesium fluoride. <i>Journal of Solid State Chemistry</i> , 2006, 179, 739-746.	1.4	61
33	Isolation and Structural X-ray Investigation of Perfluoroalkyl Derivatives of Six Cage Isomers of C ₈₄ . <i>Chemistry - A European Journal</i> , 2009, 15, 10486-10492.	1.7	61
34	Spectroscopic characterization of crystalline AlF ₃ phases. <i>Journal of Fluorine Chemistry</i> , 2010, 131, 91-97.	0.9	61
35	Bromination of [60]Fullerene. II. Crystal and Molecular Structure of [60]Fullerene Bromides, C ₆₀ Br ₆ , C ₆₀ Br ₈ , and C ₆₀ Br ₂₄ . <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2003, 11, 61-77.	1.0	60
36	Acylation of naphthalenes and anthracene on sulfated zirconia. <i>Journal of Catalysis</i> , 2005, 231, 269-278.	3.1	60

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37	MgF ₂ antireflective coatings by sol-gel processing: film preparation and thermal densification. <i>Journal of Materials Chemistry</i> , 2012, 22, 18535.	6.7	60
38	X-Ray Photoelectron and X-Ray Excited Auger Electron Spectroscopic Analysis of Surface Modifications of Chromia during Heterogeneous Catalyzed Chlorine/Fluorine Exchange. <i>Journal of Catalysis</i> , 1996, 159, 270-279.	3.1	54
39	Determination of the Acidity of High Surface AlF ₃ by IR Spectroscopy of Adsorbed CO Probe Molecules. <i>Journal of Physical Chemistry C</i> , 2007, 111, 18317-18325.	1.5	54
40	Synthesis and Structure of Halogenated Fullerenes. <i>Current Organic Chemistry</i> , 2012, 16, 1060-1078.	0.9	53
41	Characterization of the Structure and Catalytic Behavior of AlF ₃ ·x(OH) _x with Aluminum Successively Replaced by Chromium and Magnesium. <i>Journal of Catalysis</i> , 1996, 159, 332-339.	3.1	52
42	Oxidation Activity and ¹⁸ O-Isotope Exchange Behavior of Cu-Stabilized Cubic Zirconia. <i>Journal of Catalysis</i> , 2001, 199, 209-216.	3.1	52
43	Hydroxylated magnesium fluorides as environmentally friendly catalysts for glycerol acetylation. <i>Applied Catalysis B: Environmental</i> , 2011, 107, 260-267.	10.8	52
44	Fuel-rich methane combustion: Role of the Pt dispersion and oxygen mobility in a fluorite-like complex oxide support. <i>Catalysis Today</i> , 2006, 117, 475-483.	2.2	51
45	The non-aqueous fluorolytic sol-gel synthesis of nanoscaled metal fluorides. <i>Dalton Transactions</i> , 2015, 44, 19411-19431.	1.6	51
46	One-Pot Synthesis of Menthol Catalyzed by a Highly Diastereoselective Au/MgF ₂ Catalyst. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8134-8138.	7.2	50
47	C ₇₆ fullerene chlorides and cage transformations. Structural and theoretical study. <i>Dalton Transactions</i> , 2011, 40, 11005.	1.6	50
48	Crystal Structures of C ₉₄ (CF ₃) ₂₀ and C ₉₆ (C ₂ F ₅) ₁₂ Reveal the Cage Connectivities in C ₉₄ (61) and C ₉₆ (145) Fullerenes. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9102-9104.	7.2	49
49	Chlorination of IPR C ₁₀₀ Fullerene Affords Unconventional C ₉₆ Cl ₂₀ with a Nonclassical Cage Containing Three Heptagons. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2460-2463.	7.2	49
50	Surface acidity and catalytic behavior of modified zirconium and titanium dioxides. <i>Applied Catalysis A: General</i> , 1997, 149, 373-389.	2.2	48
51	Halogenometalates with N-containing organic cations structural chemistry and thermal behavior. <i>Progress in Solid State Chemistry</i> , 1999, 27, 75-129.	3.9	48
52	Synthesis and structural characterization of highly chlorinated C ₇₀ , C ₇₀ Cl ₂₈ . <i>Chemical Communications</i> , 2005, , 72.	2.2	48
53	Electronic structure of Lewis acid sites on high surface area aluminium fluorides: a combined XPS and ab initio investigation. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 5664.	1.3	48
54	Th-C ₆₀ F ₂₄ . <i>Journal of the American Chemical Society</i> , 2004, 126, 1618-1619.	6.6	47

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55	Variation of sol-gel synthesis parameters and their consequence for the surface area and structure of magnesium fluoride. <i>Journal of Materials Chemistry</i> , 2007, 17, 4980.	6.7	47
56	Crystalline aluminium hydroxy fluorides—Suitable reference compounds for ¹⁹ F chemical shift trend analysis of related amorphous solids. <i>Journal of Fluorine Chemistry</i> , 2008, 129, 598-606.	0.9	47
57	Microwave-assisted fluorolytic sol-gel route to iron fluoride nanoparticles for Li-Ion batteries. <i>Chemical Communications</i> , 2014, 50, 460-462.	2.2	47
58	Sol-gel prepared nanoscopic metal fluorides—a new class of tunable acid-base catalysts. <i>Catalysis Today</i> , 2010, 152, 2-10.	2.2	46
59	Catalytic C-H Bond Activation at Nanoscale Lewis Acidic Aluminium Fluorides: H/D Exchange Reactions at Aromatic and Aliphatic Hydrocarbons. <i>Chemistry - A European Journal</i> , 2011, 17, 14385-14388.	1.7	46
60	Novel and easy access to highly luminescent Eu and Tb doped ultra-small CaF ₂ , SrF ₂ and BaF ₂ nanoparticles—structure and luminescence. <i>Dalton Transactions</i> , 2017, 46, 2925-2936.	1.6	46
61	Catalytic Performance of Nanoscopic, Aluminium Trifluoride-Based Catalysts in the Synthesis of (all- <i>rac</i>)-α-Tocopherol. <i>Advanced Synthesis and Catalysis</i> , 2008, 350, 2517-2524.	2.1	45
62	Connectivity Patterns of Two C ₉₀ Isomers Provided by the Structure Elucidation of C ₉₀ Cl ₃₂ . <i>Angewandte Chemie - International Edition</i> , 2009, 48, 2584-2587.	7.2	45
63	Six IPR Isomers of C ₉₀ Fullerene Captured as Chlorides: Carbon Cage Connectivities and Chlorination Patterns. <i>Chemistry - A European Journal</i> , 2011, 17, 10662-10669.	1.7	45
64	Four Isomers of C ₉₆ Fullerene Structurally Proven as C ₉₆ Cl ₂₂ and C ₉₆ Cl ₂₄ . <i>Angewandte Chemie - International Edition</i> , 2012, 51, 8239-8242.	7.2	45
65	[(enH ₂) _{0.5}][Zr ₂ (PO ₄) ₂ (HPO ₄)F]·H ₂ O: A Unique Zirconium Fluoride Phosphate with a Cavity Structure. <i>Angewandte Chemie International Edition in English</i> , 1996, 35, 2677-2678.	4.4	44
66	Cyclisation of citronellal over heterogeneous inorganic fluorides—highly chemo- and diastereoselective catalysts for (±)-isopulegol. <i>Chemical Communications</i> , 2009, , 460-462.	2.2	44
67	Crystal and molecular structures of C ₇₀ (CF ₃) ₈ ·PhMe. <i>Mendeleev Communications</i> , 2005, 15, 225-227.	0.6	43
68	Preparation and crystallographic characterization of C ₆₀ Cl ₂₄ . <i>Chemical Communications</i> , 2005, , 1411.	2.2	43
69	Aluminum Chloride as a Solid Is Not a Strong Lewis Acid. <i>Journal of Physical Chemistry B</i> , 2006, 110, 8314-8319.	1.2	43
70	Higher trifluoromethylated derivatives of C ₆₀ , C ₆₀ (CF ₃) ₁₆ and C ₆₀ (CF ₃) ₁₈ . <i>Journal of Fluorine Chemistry</i> , 2007, 128, 545-551.	0.9	43
71	Cage Shrinkage of Fullerene via a C ₂ Loss: from IPR C ₉₀ (28)Cl ₂₄ to Nonclassical, Heptagon-Containing C ₈₈ Cl _{22/24} . <i>Inorganic Chemistry</i> , 2013, 52, 13821-13823.	1.9	43
72	Active sites on an oxide catalyst for F/Cl-exchange reactions: X-ray spectroscopy of fluorinated ¹³ C-Al ₂ O ₃ . <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 2824-2832.	1.3	41

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73	Oxidation activity and ¹⁸ O-isotope exchange behavior of nickel oxide-stabilized cubic zirconia. <i>Journal of Catalysis</i> , 2004, 222, 80-86.	3.1	41
74	Infrared Investigation of the Acid and Basic Properties of a SolâGel Prepared MgF ₂ . <i>Journal of Physical Chemistry C</i> , 2010, 114, 5113-5120.	1.5	41
75	New Giant Fullerenes Identified as Chloro Derivatives: Isolated-Pentagon-Rule C ₁₀₈ (1771)Cl ₁₂ and C ₁₀₆ (1155)Cl ₂₄ as well as Nonclassical C ₁₀₄ Cl ₂₄ . <i>Inorganic Chemistry</i> , 2016, 55, 5741-5743.	1.9	41
76	Enhanced Lewis acidity by aliovalent cation doping in metal fluorides. <i>Journal of Fluorine Chemistry</i> , 2002, 114, 163-170.	0.9	40
77	Capturing an unstable C ₁₀₀ fullerene as chloride, C ₁₀₀ (1)Cl ₁₂ , with a nanotubular carbon cage. <i>Chemical Communications</i> , 2014, 50, 14577-14580.	2.2	40
78	New Zirconium Phosphate Fluorides: Hydrothermal Synthesis and Crystal Structures. <i>Journal of Solid State Chemistry</i> , 1998, 135, 293-301.	1.4	39
79	Synthesis and Structures of Fullerene Bromides and Chlorides. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 4951-4962.	1.2	39
80	Fluorine modified chromium oxide and its impact on heterogeneously catalyzed fluorination reactions. <i>Journal of Fluorine Chemistry</i> , 2000, 101, 239-246.	0.9	38
81	Conversion of 1,1,2-trichlorotrifluoroethane to 1,1,1-trichlorotrifluoroethane and 1,1-dichlorotetrafluoroethane over aluminium-based catalysts. <i>Journal of Fluorine Chemistry</i> , 2001, 107, 45-52.	0.9	38
82	Photochemical activation of SF ₆ by N-heterocyclic carbenes to provide a deoxyfluorinating reagent. <i>Chemical Communications</i> , 2018, 54, 9753-9756.	2.2	38
83	WO ₃ /ZrO ₂ : a potential catalyst for the acetylation of anisole. <i>Journal of Molecular Catalysis A</i> , 2004, 223, 137-142.	4.8	37
84	Comparative structural investigation of aluminium fluoride solvates. <i>Solid State Sciences</i> , 2006, 8, 1443-1452.	1.5	37
85	Crystalline Aluminum Hydroxy Fluorides: Structural Insights Obtained by High Field Solid State NMR and Trend Analyses. <i>Journal of Physical Chemistry C</i> , 2008, 112, 15708-15720.	1.5	36
86	Structure and Properties of Noncrystalline Aluminum Oxide-Hydroxide Fluorides. <i>Chemistry of Materials</i> , 2010, 22, 2347-2356.	3.2	36
87	Synthesis, Isolation, and Addition Patterns of Trifluoromethylated D ₅ h and I _h isomers of Sc ₃ N@C ₈₀ : Sc ₃ N@D ₅ h-C ₈₀ (CF ₃) ₁₈ and Sc ₃ N@I _h -C ₈₀ (CF ₃) ₁₄ . <i>Inorganic Chemistry</i> , 2011, 50, 3766-3771.	1.9	36
88	Local fluorine environments in nanoscopic magnesium hydr(oxide) fluorides studied by ¹⁹ F MAS NMR. <i>Journal of Fluorine Chemistry</i> , 2011, 132, 1079-1085.	0.9	36
89	ChlorinationâPromoted SkeletalâCage Transformations of C ₈₈ Fullerene by C ₂ Losses and a CâC Bond Rotation. <i>Chemistry - A European Journal</i> , 2015, 21, 15138-15141.	1.7	36
90	C ₁₀₀ is Converted into C ₉₄ Cl ₂₂ by Three ChlorinationâPromoted C ₂ Losses under Formation and Elimination of Cage Heptagons. <i>Chemistry - A European Journal</i> , 2015, 21, 4904-4907.	1.7	36

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91	Mechanochemical Synthesis, Characterization, and Structure Determination of New Alkaline Earth Metal-Tetrafluoroterephthalate Frameworks: Ca(<i>p</i> -BDC-F ₄)·4H ₂ O, Sr(<i>p</i> -BDC-F ₄)·4H ₂ O, and Ba(<i>p</i> -BDC-F ₄). <i>Crystal Growth and Design</i> , 2016, 16, 1923-1933.	1.4	36
92	-NMR solid state investigations of monovalent alkali metal fluorides and tetra-alkylammonium fluorides. <i>Journal of Fluorine Chemistry</i> , 2002, 115, 193-199.	0.9	35
93	Acetylation and benzylation of various aromatics on sulfated zirconia. <i>Journal of Molecular Catalysis A</i> , 2004, 207, 51-57.	4.8	34
94	Preparation, Crystallographic Characterization, and Theoretical Study of C70(CF ₃) ₁₄ . <i>European Journal of Organic Chemistry</i> , 2006, 2006, 2508-2512.	1.2	34
95	Coupling Sol-Gel Synthesis and Microwave-Assisted Techniques: A New Route from Amorphous to Crystalline High-Surface Area Aluminium Fluoride. <i>Chemistry - A European Journal</i> , 2008, 14, 6205-6212.	1.7	34
96	Novel Synthesis and Thermal Behavior of Aluminum Hydroxy Fluorides AlF _x (OH)3 ^x . <i>Chemistry of Materials</i> , 2008, 20, 5687-5697.	3.2	34
97	Synthesis of Vitamin K ₁ and K ₁ -Chromanol by Friedel-Crafts Alkylation in Heterogeneous Catalysis. <i>ChemCatChem</i> , 2010, 2, 92-97.	1.8	34
98	Sols of nanosized magnesium fluoride: formation and stabilisation of nanoparticles. <i>Journal of Materials Chemistry</i> , 2011, 21, 15015.	6.7	34
99	Novel Synthesis of Anhydrous and Hydroxylated CuF ₂ Nanoparticles and Their Potential for Lithium Ion Batteries. <i>Chemistry - A European Journal</i> , 2018, 24, 7177-7187.	1.7	34
100	Microcalorimetric and Catalytic Studies on Sulfated Zirconia Catalysts of Different Preparations. <i>Journal of Catalysis</i> , 2001, 203, 426-433.	3.1	33
101	Bulk and surface properties of highly dispersed VO _x /ZrO ₂ , VO _x /SiO ₂ and VO _x /TiO ₂ /SiO ₂ systems and their relevance for propane oxidation. <i>Journal of Materials Chemistry</i> , 2004, 14, 2560.	6.7	33
102	Synthesis and characterization of chromium(III)-doped magnesium fluoride catalysts. <i>Applied Catalysis A: General</i> , 2005, 282, 85-91.	2.2	33
103	Formation of nanoscopic CaF ₂ via a fluorolytic sol-gel process for antireflective coatings. <i>Journal of Materials Chemistry C</i> , 2015, 3, 1716-1723.	2.7	33
104	Reversible Sodium and Lithium Insertion in Iron Fluoride Perovskites. <i>Advanced Functional Materials</i> , 2018, 28, 1802057.	7.8	33
105	Benzylation of anisole over borate zirconia solid acid catalyst. <i>Catalysis Communications</i> , 2002, 3, 411-416.	1.6	32
106	Synthesis of ternary transition metal fluorides Li ₃ MF ₆ via a sol-gel route as candidates for cathode materials in lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 15819.	6.7	32
107	The first structural confirmation of a C ₁₀₂ fullerene as C ₁₀₂ Cl ₂₀ containing a non-IPR carbon cage. <i>Chemical Communications</i> , 2013, 49, 7944.	2.2	32
108	Structures of Chlorinated Fullerenes, IPR C ₉₆ Cl ₂₀ and Non-classical C ₉₄ Cl ₂₈ and C ₉₂ Cl ₃₂ : Evidence of the Existence of Three New Isomers of C ₉₆ . <i>Chemistry - an Asian Journal</i> , 2014, 9, 3102-3105.	1.7	32

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109	Novel aspects in the chemistry of the non-aqueous fluorolytic sol-gel synthesis of nanoscaled homodisperse MgF ₂ sols for antireflective coatings. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1454-1466.	2.7	32
110	The First Crystal Structure of a Halogenated Higher Fullerene, C ₇₈ Br ₁₈ , Obtained by Bromination of a Fullerene Mixture. <i>European Journal of Organic Chemistry</i> , 2003, 2003, 3916-3919.	1.2	31
111	FeF ₃ /MgF ₂ : novel Lewis acidic catalyst systems. <i>Applied Catalysis A: General</i> , 2004, 278, 133-138.	2.2	31
112	F/Cl-Exchange on AlCl ₃ -Pyridine Adducts: Synthesis and Characterization of trans-Difluoro-tetrakis-pyridine-aluminum-chloride, [AlF ₂ (Py) ₄]+Cl ⁻ . <i>Inorganic Chemistry</i> , 2006, 45, 10807-10814.	1.9	31
113	Skeletal Transformation of Isolated Pentagon Rule (IPR) Fullerene C ₈₂ into Non-IPR C ₈₂ Cl ₂₈ with Notably Low Activation Barriers. <i>Inorganic Chemistry</i> , 2012, 51, 11226-11228.	1.9	31
114	Antireflective Coatings with Adjustable Refractive Index and Porosity Synthesized by Micelle-Templated Deposition of MgF ₂ Sol Particles. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 19559-19565.	4.0	31
115	Comparison of acidic site quantification methods for a series of nanoscopic aluminum hydroxide fluorides. <i>RSC Advances</i> , 2014, 4, 56900-56909.	1.7	31
116	Dehydration of xylose and glucose to furan derivatives using bifunctional partially hydroxylated MgF ₂ catalysts and N ₂ -stripping. <i>Catalysis Science and Technology</i> , 2014, 4, 1357-1368.	2.1	31
117	Catalytic formation of 2,3,3,3-tetrafluoropropene from 2-chloro-3,3,3-trifluoropropene at fluorinated chromia: A study of reaction pathways. <i>Applied Catalysis B: Environmental</i> , 2015, 165, 200-208.	10.8	31
118	Catalytic acylation of aromatics with carboxylic anhydrides over sulfated zirconia. <i>Topics in Catalysis</i> , 2000, 13, 281-285.	1.3	30
119	Pt-Supported Nanocrystalline Ceria-Zirconia Doped with La, Pr or Gd: Factors Controlling Syngas Generation in Partial Oxidation/Autothermal Reforming of Methane or Oxygenates. <i>Solid State Phenomena</i> , 2007, 128, 239-248.	0.3	30
120	Friedel-Crafts alkylations on nanoscopic inorganic fluorides. <i>Applied Catalysis A: General</i> , 2011, 391, 169-174.	2.2	29
121	Metal fluoride-based transparent nanocomposites with low refractive indices. <i>Dalton Transactions</i> , 2013, 42, 5706.	1.6	29
122	Synthesis and Crystal Structures of Zirconium Phosphate Fluorides with New 2D and 3D Structure Types. <i>Journal of Solid State Chemistry</i> , 2000, 149, 21-27.	1.4	28
123	Novel Pd/TiO ₂ -ZrO ₂ catalysts for methane total oxidation at low temperature and their ¹⁸ O-isotope exchange behavior. <i>Journal of Molecular Catalysis A</i> , 2005, 226, 263-268.	4.8	28
124	Structure of 1,4,10,19,25,41-C ₇₀ (CF ₃) ₆ , isomer with unique arrangement of addends. <i>Journal of Fluorine Chemistry</i> , 2006, 127, 1344-1348.	0.9	28
125	Synthesis, Structure, and Theoretical Study of Trifluoromethyl Derivatives of C ₈₄ (22) Fullerene. <i>Chemistry - A European Journal</i> , 2013, 19, 578-587.	1.7	28
126	Rebuilding C ₆₀ : Chlorination-Promoted Transformations of the Buckminsterfullerene into Pentagon-Fused C ₆₀ Derivatives. <i>Inorganic Chemistry</i> , 2018, 57, 8325-8331.	1.9	28

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127	Heterogeneous catalyzed synthesis of 1,1,1,2-tetrafluoroethane from 1,1,1,2-tetrachloroethane â€” thermodynamics and reaction pathways. <i>Journal of Fluorine Chemistry</i> , 1995, 75, 103-110.	0.9	27
128	Heterogeneous catalyzed decomposition reactions of dichlorodifluoromethane in the presence of water on γ -alumina. <i>Journal of Fluorine Chemistry</i> , 1997, 81, 197-204.	0.9	27
129	Title is missing!. <i>Reaction Kinetics and Catalysis Letters</i> , 2002, 76, 83-92.	0.6	27
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