Junko N Kondo

List of Publications by Year in descending order

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350 papers	22,474 citations	8181 76 h-index	10445 139 g-index
359 all docs	359 docs citations	359 times ranked	15986 citing authors

#	Article	IF	Citations
1	Conduction and Valence Band Positions of Ta2O5, TaON, and Ta3N5by UPS and Electrochemical Methods. Journal of Physical Chemistry B, 2003, 107, 1798-1803.	2.6	917
2	Oxysulfide Sm2Ti2S2O5as a Stable Photocatalyst for Water Oxidation and Reduction under Visible Light Irradiation (Î» â‰¤ 650 nm). Journal of the American Chemical Society, 2002, 124, 13547-13553.	13.7	890
3	Cu2O as a photocatalyst for overall water splitting under visible light irradiation. Chemical Communications, 1998, , 357-358.	4.1	747
4	Biodiesel made with sugar catalyst. Nature, 2005, 438, 178-178.	27.8	735
5	An oxynitride, TaON, as an efficient water oxidation photocatalyst under visible light irradiation (Î» â‰¤) Tj ETQq1 1 0.784314 rgBT /Ov	4.1	585
6	A Carbon Material as a Strong Protonic Acid. Angewandte Chemie - International Edition, 2004, 43, 2955-2958.	13.8	519
7	Acid-Catalyzed Reactions on Flexible Polycyclic Aromatic Carbon in Amorphous Carbon. Chemistry of Materials, 2006, 18, 3039-3045.	6.7	509
8	Nb₂O₅Â·nH₂O as a Heterogeneous Catalyst with Water-Tolerant Lewis Acid Sites. Journal of the American Chemical Society, 2011, 133, 4224-4227.	13.7	480
9	Photoreactions on LaTiO2N under Visible Light Irradiation. Journal of Physical Chemistry A, 2002, 106, 6750-6753.	2.5	443
10	RuO2-Loaded Î²-Ge3N4as a Non-Oxide Photocatalyst for Overall Water Splitting. Journal of the American Chemical Society, 2005, 127, 4150-4151.	13.7	388
11	Ta3N5as a Novel Visible Light-Driven Photocatalyst (Î»<600 nm). Chemistry Letters, 2002, 31, 736-737.	1.3	377
12	Photocatalytic Decomposition of Water on Spontaneously Hydrated Layered Perovskites. Chemistry of Materials, 1997, 9, 1063-1064.	6.7	351
13	TaON and Ta3N5 as new visible light driven photocatalysts. Catalysis Today, 2003, 78, 555-560.	4.4	339
14	Photo- and Mechano-Catalytic Overall Water Splitting Reactions to Form Hydrogen and Oxygen on Heterogeneous Catalysts. Bulletin of the Chemical Society of Japan, 2000, 73, 1307-1331.	3.2	316
15	LaTiO2N as a Visible-Light (â‰¤600 nm)-Driven Photocatalyst (2). Journal of Physical Chemistry B, 2003, 107, 791-797.	2.6	288
16	Selective Hydrogenation of Acetylene over Au/Al2O3Catalyst. Journal of Physical Chemistry B, 2000, 104, 11153-11156.	2.6	281
17	Esterification of higher fatty acids by a novel strong solid acid. Catalysis Today, 2006, 116, 157-161.	4.4	266
18	Exfoliated Nanosheets as a New Strong Solid Acid Catalyst. Journal of the American Chemical Society, 2003, 125, 5479-5485.	13.7	247

#	Article	IF	Citations
19	Recent progress of photocatalysts for overall water splitting. Catalysis Today, 1998, 44, 17-26.	4.4	230
20	Mesoporous Tantalum Oxide. 1. Characterization and Photocatalytic Activity for the Overall Water Decomposition. Chemistry of Materials, 2001, 13, 1194-1199.	6.7	229
21	Control of the Al Distribution in the Framework of ZSM-5 Zeolite and Its Evaluation by Solid-State NMR Technique and Catalytic Properties. Journal of Physical Chemistry C, 2015, 119, 15303-15315.	3.1	227
22	Visible light-induced photocatalytic behavior of a layered perovskite-type rubidium lead niobate, RbPb2Nb3O10. The Journal of Physical Chemistry, 1993, 97, 1970-1973.	2.9	216
23	A highly active photocatalyst for overall water splitting with a hydrated layered perovskite structure. Journal of Photochemistry and Photobiology A: Chemistry, 1997, 106, 45-49.	3.9	204
24	Crystallization of Mesoporous Metal Oxides. Chemistry of Materials, 2008, 20, 835-847.	6.7	198
25	Recent progress of visible-light-driven heterogeneous photocatalysts for overall water splitting. Solid State Ionics, 2004, 172, 591-595.	2.7	194
26	Heterogeneous Ni Catalyst for Direct Synthesis of Primary Amines from Alcohols and Ammonia. ACS Catalysis, 2013, 3, 112-117.	11.2	185
27	Oxysulfides Ln2Ti2S2O5as Stable Photocatalysts for Water Oxidation and Reduction under Visible-Light Irradiation. Journal of Physical Chemistry B, 2004, 108, 2637-2642.	2.6	169
28	Unusual enhancement of H2 evolution by Ru on TaON photocatalyst under visible light irradiation. Chemical Communications, 2003, , 3000.	4.1	166
29	Facile control of crystallite size of ZSM-5 catalyst for cracking of hexane. Microporous and Mesoporous Materials, 2011, 145, 165-171.	4.4	163
30	Effect of desilication of H-ZSM-5 by alkali treatment on catalytic performance in hexane cracking. Applied Catalysis A: General, 2012, 449, 188-197.	4.3	163
31	Synthesis of Crystallized Mesoporous Tantalum Oxide and Its Photocatalytic Activity for Overall Water Splitting under Ultraviolet Light Irradiation. Chemistry of Materials, 2008, 20, 5361-5367.	6.7	162
32	Preparation of K2La2Ti3O10by Polymerized Complex Method and Photocatalytic Decomposition of Water. Chemistry of Materials, 1998, 10, 72-77.	6.7	161
33	Protonated Titanate Nanotubes as Solid Acid Catalyst. Journal of the American Chemical Society, 2010, 132, 6622-6623.	13.7	159
34	A Stable and Highly Active Hybrid Mesoporous Solid Acid Catalyst. Advanced Materials, 2005, 17, 1839-1842.	21.0	151
35	Electrochemical Behavior of Thin Ta3N5Semiconductor Film. Journal of Physical Chemistry B, 2004, 108, 11049-11053.	2.6	146
36	FT-IR studies of the interaction between zeolitic hydroxyl groups and small molecules. 1. Adsorption of nitrogen on H-mordenite at low temperature. The Journal of Physical Chemistry, 1993, 97, 10761-10768.	2.9	140

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37	Mechano-catalytic overall water splitting. Chemical Communications, 1998, , 2185-2186.	4.1	139
38	Amorphous Carbon Bearing Sulfonic Acid Groups in Mesoporous Silica as a Selective Catalyst. Chemistry of Materials, 2009, 21, 186-193.	6.7	136
39	Dealuminated Beta zeolite as effective bifunctional catalyst for direct transformation of glucose to 5-hydroxymethylfurfural. Applied Catalysis A: General, 2014, 470, 318-326.	4.3	135
40	Al distribution and catalytic performance of ZSM-5 zeolites synthesized with various alcohols. Journal of Catalysis, 2017, 353, 1-10.	6.2	134
41	Infrared studies of adsorbed species of H2, CO and CO2 over ZrO2. Journal of the Chemical Society Faraday Transactions I, 1988, 84, 511.	1.0	133
42	TiNxOyFzas a Stable Photocatalyst for Water Oxidation in Visible Light (<570 nm). Chemistry Letters, 2003, 32, 196-197.	1.3	133
43	The study of methanol-to-olefin over proton type aluminosilicate CHA zeolites. Microporous and Mesoporous Materials, 2008, 112, 153-161.	4.4	129
44	Highly Active Mesoporous Nbâ€“W Oxide Solidâ€Acid Catalyst. Angewandte Chemie - International Edition, 2010, 49, 1128-1132.	13.8	124
45	Preparation of Porous Niobium Oxides by Soft-Chemical Process and Their Photocatalytic Activity. Chemistry of Materials, 1997, 9, 2179-2184.	6.7	121
46	Variability in the Structure of Supported MoO3 Catalysts:â€‰ Studies Using Raman and X-ray Absorption Spectroscopy with ab Initio Calculations. Journal of Physical Chemistry B, 2001, 105, 8519-8530.	2.6	121
47	Ta3N5and TaON Thin Films on Ta Foil:Â Surface Composition and Stability. Journal of Physical Chemistry B, 2003, 107, 13441-13445.	2.6	121
48	Three-Dimensionally Ordered Mesoporous Niobium Oxide. Journal of the American Chemical Society, 2002, 124, 11256-11257.	13.7	120
49	Photocatalytic Decomposition of Acetaldehyde under Visible Light Irradiation over La3+and N Co-doped TiO2. Chemistry Letters, 2003, 32, 1156-1157.	1.3	118
50	Exfoliated HNb3O8Nanosheets as a Strong Protonic Solid Acid. Chemistry of Materials, 2005, 17, 2487-2489.	6.7	117
51	Synthesis and analysis of CO2 adsorbents based on cerium oxide. Journal of CO2 Utilization, 2014, 8, 34-38.	6.8	109
52	Selective oxidation of alcohols to aldehydes/ketones over copper oxide-supported gold catalysts. Journal of Catalysis, 2013, 299, 10-19.	6.2	107
53	An Ethoxy Intermediate in Ethanol Dehydration on BrÃ¸nsted Acid Sites in Zeolite. Journal of Physical Chemistry B, 2005, 109, 10969-10972.	2.6	106
54	Photocatalytic reduction of water by TaON under visible light irradiation. Catalysis Today, 2004, 90, 313-317.	4.4	103

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55	Catalytic application of sulfonic acid functionalized mesoporous benzeneâ€“silica with crystal-like pore wall structure in esterification. Journal of Molecular Catalysis A, 2005, 230, 85-89.	4.8	103
56	Facile Fabrication of ZSM-5 Zeolite Catalyst with High Durability to Coke Formation during Catalytic Cracking of Paraffins. ACS Catalysis, 2013, 3, 74-78.	11.2	103
57	Preparation of Silica Pillared Ca2Nb3O10 and Its Photocatalytic Activity. Chemistry of Materials, 1996, 8, 2534-2538.	6.7	101
58	Titanium Niobate and Titanium Tantalate Nanosheets as Strong Solid Acid Catalysts. Journal of Physical Chemistry B, 2004, 108, 11549-11555.	2.6	99
59	Infrared study of hydrogen adsorbed on ZrO2. Journal of the Chemical Society, Faraday Transactions, 1990, 86, 397.	1.7	97
60	Mechano-catalysisâ€”a novel method for overall water splitting. Physical Chemistry Chemical Physics, 1999, 1, 4485-4491.	2.8	94
61	A comparative IR characterization of acidic sites on HY zeolite by pyridine and CO probes with silicaâ€“alumina and Î³-alumina references. Physical Chemistry Chemical Physics, 2010, 12, 11576.	2.8	93
62	Effect of Chromium Addition for Photocatalytic Overall Water Splitting on Niâ€“K2La2Ti3O10. Journal of Catalysis, 2000, 196, 362-365.	6.2	92
63	Novel Synthesis and Photocatalytic Activity of Oxysulfide Sm2Ti2S2O5. Chemistry of Materials, 2003, 15, 4442-4446.	6.7	92
64	Porous Single-Crystalline TaON and Ta3N5 Particles. Chemistry of Materials, 2004, 16, 1603-1605.	6.7	92
65	FT-IR Study of H218O Adsorption on H-ZSM-5:Â Direct Evidence for the Hydrogen-Bonded Adsorption of Water. The Journal of Physical Chemistry, 1996, 100, 1442-1444.	2.9	91
66	Effect of the particle size for photocatalytic decomposition of water on Ni-loaded K4Nb6O17. Microporous Materials, 1997, 9, 253-258.	1.6	91
67	Evidence for a â€œCarbeneâ€•likeâ€•Intermediate during the Reaction of Methoxy Species with Light Alkenes on Hâ€ZSMâ€5. Angewandte Chemie - International Edition, 2011, 50, 1853-1856.	13.8	91
68	Direct Comparison of N2 and CO as IR-Spectroscopic Probes of Acid Sites in H-ZSM-5 Zeolite. The Journal of Physical Chemistry, 1995, 99, 10573-10580.	2.9	90
69	Crystallization of an Ordered Mesoporous Nbâ€“Ta Oxide. Angewandte Chemie - International Edition, 2003, 42, 2382-2385.	13.8	90
70	A Comparative Study of Methanol to Olefin over CHA and MTF Zeolites. Journal of Physical Chemistry C, 2007, 111, 5409-5415.	3.1	90
71	Synthesis of Mesoporous Silica Nanospheres Promoted by Basic Amino Acids and their Catalytic Application. Chemistry of Materials, 2010, 22, 3900-3908.	6.7	88
72	Visible-light-driven photocatalytic behavior of tantalum-oxynitride and nitride. Research on Chemical Intermediates, 2007, 33, 13-25.	2.7	86

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73	Layered niobium oxides pillaring and exfoliation. Catalysis Today, 1996, 28, 167-174.	4.4	85
74	Structure and Acid Catalysis of Mesoporous Nb₂O₅Â·nH₂O. Chemistry of Materials, 2010, 22, 3332-3339.	6.7	82
75	Dehydration of xylose over sulfated tin oxide catalyst: Influences of the preparation conditions on the structural properties and catalytic performance. Applied Catalysis A: General, 2011, 408, 117-124.	4.3	82
76	Ethane-bridged hybrid mesoporous functionalized organosilicas with terminal sulfonic groups and their catalytic applications. Journal of Materials Chemistry, 2005, 15, 666.	6.7	80
77	Heterogeneous cobalt catalysts for the acceptorless dehydrogenation of alcohols. Green Chemistry, 2013, 15, 418-424.	9.0	78
78	Metal ion and N co-doped TiO2 as a visible-light photocatalyst. Journal of Materials Research, 2004, 19, 2100-2108.	2.6	77
79	Partial oxidation of methane to syngas over promoted C12A7. Applied Catalysis A: General, 2004, 277, 239-246.	4.3	77
80	Direct Production of Propene from Methoxy Species and Dimethyl Ether over H-ZSM-5. Journal of Physical Chemistry C, 2012, 116, 24091-24097.	3.1	76
81	(Oxy)nitrides as New Photocatalysts for Water Splitting under Visible Light Irradiation. Electrochemistry, 2002, 70, 463-465.	1.4	74
82	Single-Crystal Particles of Mesoporous Niobiumâ"Tantalum Mixed Oxide. Chemistry of Materials, 2002, 14, 867-875.	6.7	73
83	New aspects of heterogeneous photocatalysts for water decomposition. Korean Journal of Chemical Engineering, 2001, 18, 862-866.	2.7	71
84	Low temperature CO pulse adsorption for the determination of Pt particle size in a Pt/cerium-based oxide catalyst. Applied Catalysis A: General, 2009, 370, 108-113.	4.3	70
85	Preparation of Crystallized Mesoporous Ta₃N₅ Assisted by Chemical Vapor Deposition of Tetramethyl Orthosilicate. Chemistry of Materials, 2010, 22, 3854-3861.	6.7	70
86	Formation and Desorption of Oxygen Species in Nanoporous Crystal 12CaOÂ·7Al2O3. Chemistry of Materials, 2004, 16, 104-110.	6.7	68
87	Control of Al Distribution in the CHA-Type Aluminosilicate Zeolites and Its Impact on the Hydrothermal Stability and Catalytic Properties. Industrial & Engineering Chemistry Research, 2018, 57, 3914-3922.	3.7	67
88	Low-temperature methanol dehydration to dimethyl ether over various small-pore zeolites. Applied Catalysis B: Environmental, 2017, 217, 247-255.	20.2	65
89	Construction of Fe2O3 loaded and mesopore confined thin-layer titania catalyst for efficient NH3-SCR of NOx with enhanced H2O/SO2 tolerance. Applied Catalysis B: Environmental, 2021, 287, 119982.	20.2	64
90	Ultrafast Encapsulation of Metal Nanoclusters into MFI Zeolite in the Course of Its Crystallization: Catalytic Application for Propane Dehydrogenation. Angewandte Chemie - International Edition, 2020, 59, 19669-19674.	13.8	63

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91	In-Situ Observation of Hydrogenation of Ethylene on a Pt(111) Surface under Atmospheric Pressure by Infrared Reflection Absorption Spectroscopy. Journal of Physical Chemistry B, 1999, 103, 4562-4565.	2.6	62
92	Synthesis, Mesostructure, and Photocatalysis of a Highly Ordered and Thermally Stable Mesoporous Mg and Ta Mixed Oxide. Chemistry of Materials, 2004, 16, 4304-4310.	6.7	62
93	Stable Dimerized Alkoxy Species of 2-Methylpropene on Mordenite Zeolite Studied by FT-IR. Journal of Physical Chemistry B, 1999, 103, 5681-5686.	2.6	61
94	Preparation of Thin Films of a Layered Titanate by the Exfoliation of CsxTi(2-x/4)x/4O4. Chemistry of Materials, 1998, 10, 329-333.	6.7	60
95	Acid Property of Silanol Groups on Zeolites Assessed by Reaction Probe IR Study. Journal of Catalysis, 2000, 191, 275-281.	6.2	59
96	Detailed Process of Adsorption of Alkanes and Alkenes on Zeolites. Journal of Physical Chemistry B, 2005, 109, 1464-1472.	2.6	59
97	Synthesis and Characterization of Mesoporous Taâ^'W Oxides as Strong Solid Acid Catalysts. Chemistry of Materials, 2010, 22, 3072-3078.	6.7	59
98	Ion-exchangeable layered niobates as photocatalysts. Catalysis Today, 1993, 16, 479-486.	4.4	58
99	Preparation of porous niobium oxide by the exfoliation of K₄Nb₆O₁₇ and its photocatalytic activity. Journal of Materials Research, 1998, 13, 861-865.	2.6	58
100	Preparation of a high active photocatalyst, K₂La₂Ti₃O₁₀, by polymerized complex method and its photocatalytic activity of water splitting. Journal of Materials Research, 1998, 13, 852-855.	2.6	55
101	Differences in Al distribution and acidic properties between RTH-type zeolites synthesized with OSDAs and without OSDAs. Physical Chemistry Chemical Physics, 2014, 16, 4155.	2.8	55
102	Single crystal particles of a mesoporous mixed transition metal oxide with a wormhole structure. Chemical Communications, 2001, , 2118-2119.	4.1	54
103	Preparation and crystallization characteristics of mesoporous TiO2 and mixed oxides. Journal of Materials Chemistry, 2005, 15, 2035.	6.7	53
104	Preparation and Characterization of Sodium Tantalate Thin Films by Hydrothermalâ^'Electrochemical Synthesis. Chemistry of Materials, 2005, 17, 2422-2426.	6.7	53
105	Preparation of a colloidal array of NaTaO3 nanoparticles via a confined space synthesis route and its photocatalytic application. Physical Chemistry Chemical Physics, 2011, 13, 2563.	2.8	52
106	FT-IR Studies of the Interaction between Zeolitic Hydroxyl Groups and Small Molecules. 3. Adsorption of Oxygen, Argon, Nitrogen, and Xenon on Hâ^'ZSM-5 at Low Temperaturesâ€. The Journal of Physical Chemistry, 1996, 100, 4154-4159.	2.9	51
107	Preparation of Ion-Exchangeable Thin Films of Layered Niobate K4Nb6O17. Chemistry of Materials, 1998, 10, 1647-1651.	6.7	51
108	IR observation of adsorption and reactions of olefins on H-form zeolites. Journal of Molecular Catalysis A, 2003, 199, 27-38.	4.8	51

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109	IR Study of H2O Adsorbed on H-ZSM-5. Langmuir, 1997, 13, 747-750.	3.5	50
110	Catalytic cracking of n-hexane for producing propylene on MCM-22 zeolites. Applied Catalysis A: General, 2015, 504, 192-202.	4.3	50
111	DoubleBond Migration of an Olefin without Protonated Species on H(D) Form Zeolites. Journal of Physical Chemistry B, 1997, 101, 9314-9320.	2.6	49
112	A Study of Mechano-Catalysts for Overall Water Splitting. Journal of Physical Chemistry B, 2000, 104, 780-785.	2.6	49
113	Control of Reactivity in Câ^'H Bond Breaking Reactions on Oxide Catalysts:Â Methanol Oxidation on Supported Molybdenum Oxide. Journal of Physical Chemistry B, 2003, 107, 1845-1852.	2.6	48
114	Extremely Stable Zeolites Developed via Designed Liquid-Mediated Treatment. Journal of the American Chemical Society, 2020, 142, 3931-3938.	13.7	48
115	IR Study of Adsorption of Olefins on Deuterated ZSM-5. Journal of Physical Chemistry B, 1998, 102, 2259-2262.	2.6	47
116	Development of highly active SO3H-modified hybrid mesoporous catalyst. Catalysis Today, 2006, 116, 151-156.	4.4	47
117	Activation of hydrocarbons on acidic zeolites: superior selectivity of methylation of ethene with methanol to propene on weakly acidic catalysts. Chemical Communications, 2008, , 5164.	4.1	47
118	Acidic and catalytic properties of ZSM-5 zeolites with different Al distributions. Catalysis Today, 2018, 303, 64-70.	4.4	46
119	Selective oxidation of methane to methanol with H₂O₂ over an Fe-MFI zeolite catalyst using sulfolane solvent. Chemical Communications, 2019, 55, 2896-2899.	4.1	46
120	IR study of adsorption and reaction of 1-butene on H-ZSM-5. Catalysis Letters, 1997, 47, 129-133.	2.6	45
121	Mechano-catalytic overall water splitting (II) nafion-deposited Cu2O. Applied Catalysis A: General, 2000, 190, 35-42.	4.3	45
122	Ï€-bonded ethene on Pt(111) surface studied by IRAS. Surface Science, 1996, 357-358, 634-638.	1.9	44
123	Reversibly Adsorbed Ï€-Bonded Ethene on Pt(111) Surfaces by Infrared Reflection Absorption Spectroscopy. Langmuir, 1996, 12, 1926-1927.	3.5	44
124	Synthesis of 2D-hexagonally ordered mesoporous niobium and tantalum mixed oxide. Journal of Materials Chemistry, 2002, 12, 1480-1483.	6.7	44
125	Site Conversion of Methoxy Species on ZrO2. Journal of Physical Chemistry B, 1997, 101, 4867-4869.	2.6	43
126	Structure of Dimerized Alkoxy Species of 2-Methylpropene on Zeolites and Silicaâ^'Alumina Studied by FT-IR. Journal of Physical Chemistry B, 1999, 103, 8538-8543.	2.6	43

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127	FT-IR study of the interaction of oxygen, argon, helium, nitrogen and xenon with hydroxyl groups in H-Y zeolite at low temperatures. Microporous Materials, 1997, 8, 29-37.	1.6	42
128	Mesoporous Ta Oxide. 2. Improvement of the Synthetic Method and Observation of Mesostructure Formation. Chemistry of Materials, 2001, 13, 1200-1206.	6.7	42
129	Hydrogenated Borophene Shows Catalytic Activity as Solid Acid. ACS Omega, 2019, 4, 14100-14104.	3.5	42
130	Synthesis of graphene mesosponge via catalytic methane decomposition on magnesium oxide. Journal of Materials Chemistry A, 2021, 9, 14296-14308.	10.3	42
131	Perovskite-type La2Ti2O7 mesoporous photocatalyst. Journal of Solid State Chemistry, 2012, 192, 87-92.	2.9	41
132	Formation of alkenyl carbenium ions by adsorption of cyclic precursors on zeolites. Catalysis Today, 2002, 73, 113-125.	4.4	40
133	An anion-conductive microporous membrane composed of a rigid ladder polymer with a spirobiindane backbone. Journal of Materials Chemistry A, 2016, 4, 17655-17659.	10.3	40
134	In situ infrared study of n-heptane isomerization over Pt/H-beta zeolites. Journal of Catalysis, 2007, 248, 53-59.	6.2	38
135	The influence of acidities of boron- and aluminium-containing MFI zeolites on co-reaction of methanol and ethene. Physical Chemistry Chemical Physics, 2011, 13, 14598.	2.8	38
136	IR Characterization of Homogeneously Mixed Silicaâ€“Alumina Samples and Dealuminated Y Zeolites by Using Pyridine, CO, and Propene Probe Molecules. Journal of Physical Chemistry C, 2013, 117, 14043-14050.	3.1	38
137	Mechano-catalytic overall water splitting on some mixed oxides. Catalysis Today, 2000, 63, 175-181.	4.4	37
138	Oxidative Dehydrogenation of Propane with CO2 Over Cr/H[B]MFI Catalysts. Catalysis Letters, 2011, 141, 670-677.	2.6	37
139	Highâ€Performance Titanosilicate Catalyst Obtained through Combination of Liquidâ€Phase and Solidâ€Phase Transformation Mechanisms. ChemCatChem, 2014, 6, 2719-2726.	3.7	37
140	Improvement of catalytic performance of MCM-22 in the cracking of n-hexane by controlling the acidic property. Journal of Catalysis, 2016, 333, 17-28.	6.2	37
141	Title is missing!. Catalysis Letters, 1999, 59, 51-54.	2.6	36
142	Synthesis of Highly Ordered Hybrid Mesoporous Material Containing Etenylene (â€“CH=CHâ€“) within the Silicate Framework. Chemistry Letters, 2003, 32, 950-951.	1.3	36
143	FT-IR Studies of Interaction between Zeolitic Hydroxyl Groups and Small Molecules. 2. Adsorption of Oxygen, Hydrogen, and Rare Gases on H-Mordenite at Low Temperatures. The Journal of Physical Chemistry, 1995, 99, 14805-14812.	2.9	35
144	IR study of reaction of 2â€butene adsorbed on deuterated ZSMâ€5 and mordenite. Catalysis Letters, 1998, 53, 215-220.	2.6	35

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145	Improvement in the catalytic properties of ZSM-5 zeolite nanoparticles via mechanochemical and chemical modifications. Catalysis Science and Technology, 2016, 6, 2598-2604.	4.1	35
146	Infrared Investigation of Dynamic Behavior of BrÃ¸nsted Acid Sites on Zeolites at High Temperatures. Journal of Physical Chemistry C, 2017, 121, 25411-25420.	3.1	35
147	Mechano-catalytic overall water-splitting into hydrogen and oxygen on some metal oxides. Applied Energy, 2000, 67, 159-179.	10.1	34
148	Synthesis, characterization, and catalytic properties of H-Al-YNU-1 and H-Al-MWW with different Si/Al ratios. Journal of Catalysis, 2009, 266, 268-278.	6.2	34
149	Infrared study of molecularly adsorbed H2 on ZrO2. Chemical Physics Letters, 1992, 188, 443-445.	2.6	33
150	IRAS Studies of Adsorbed Ethene (C2H4) on Clean and Oxygen-Covered Cu(110) Surfaces. The Journal of Physical Chemistry, 1994, 98, 7653-7656.	2.9	33
151	Preparation of a SiO2-Pillared K0.8Fe0.8Ti1.2O4 and IR Study of N2 Adsorption. The Journal of Physical Chemistry, 1995, 99, 16043-16046.	2.9	33
152	Activation Energies for the Reaction of Ethoxy Species to Ethene over Zeolites. Journal of Physical Chemistry C, 2010, 114, 20107-20113.	3.1	33
153	Visible Light Induced Hydrogen Evolution on CdS/K4Nb6O17Photocatalyst. Bulletin of the Chemical Society of Japan, 1995, 68, 2439-2445.	3.2	32
154	FT-IR and Quantum Chemical Studies of the Interaction between Dimethyl Ether and HZSM-5 Zeolite. The Journal of Physical Chemistry, 1996, 100, 11649-11653.	2.9	32
155	Hydrogen Adsorption on Ru/ZrO2Studied by FT-IR. Journal of Physical Chemistry B, 1999, 103, 3229-3234.	2.6	32
156	Reactive and Inert Surface Species Observed during Methanol Oxidation over Silica-Supported Molybdenum Oxide. Journal of Physical Chemistry B, 2002, 106, 12965-12977.	2.6	32
157	Catalytic Activities of Alcohol Transformations Over 8-Ring Zeolites. Topics in Catalysis, 2009, 52, 1272-1280.	2.8	32
158	Proton conduction in alkali metal ion-exchanged porous ionic crystals. Physical Chemistry Chemical Physics, 2017, 19, 29077-29083.	2.8	32
159	Rigid-to-Flexible Conformational Transformation: An Efficient Route to Ring-Opening of a TrÃ¶gerâ€™s Base-Containing Ladder Polymer. ACS Macro Letters, 2017, 6, 775-780.	4.8	32
160	Catalytic dehydration of ethanol-to-ethylene over Rho zeolite under mild reaction conditions. Microporous and Mesoporous Materials, 2019, 282, 91-99.	4.4	32
161	Infrared Study of Hydrogenation of Benzoic Acid to Benzaldehyde on ZrO2Catalysts. Bulletin of the Chemical Society of Japan, 1993, 66, 3085-3090.	3.2	31
162	IR Observation of Selective Oxidation of Cyclohexene with H₂O₂over Mesoporous Nb₂O₅. Journal of Physical Chemistry C, 2009, 113, 21693-21699.	3.1	31

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163	Confinement of poly(allylamine) in Preyssler-type polyoxometalate and potassium ion framework for enhanced proton conductivity. Communications Chemistry, 2019, 2, .	4.5	31
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