

Tetsuhiko Kobayashi

List of Publications by Year in descending order

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126
papers

15,801
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41344

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18130

120
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132
all docs

132
docs citations

132
times ranked

12325
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy Research in AIST. Advanced Energy Materials, 2019, 9, 1901510.	19.5	0
2	β -Al ₂ O ₃ ·xM ₂ O ₃ ·y (M = Ti ⁴⁺ through Ga ³⁺): potential pseudo-3D mesoporous materials with tunable acidity and electronic structure. Journal of Materials Chemistry, 2012, 22, 13484.	6.7	56
3	Electrochemical oxidation of ammonia borane on gold electrode. International Journal of Hydrogen Energy, 2009, 34, 174-179.	7.1	35
4	Thermal Stability and Dispersion Behavior of Nanostructured Ce _x Zr _{1-x} O ₂ Mixed Oxides over Anatase-TiO ₂ : A Combined Study of CO Oxidation and Characterization by XRD, XPS, TPR, HREM, and UV-Vis DRS. Industrial & Engineering Chemistry Research, 2009, 48, 453-462.	3.7	43
5	Hydrogen production via steam reforming of ethyl alcohol over nano-structured indium oxide catalysts. Journal of Power Sources, 2008, 179, 566-570.	7.8	48
6	Time evolution of palladium structure change with redox fluctuations in a LaFePdO ₃ perovskite automotive catalyst by high-speed analysis with in situ DXAFS. Catalysis Communications, 2008, 9, 311-314.	3.3	34
7	Structural Characterization and Catalytic Activity of Nanosized Ceria-Terbia Solid Solutions. Journal of Physical Chemistry C, 2008, 112, 16393-16399.	3.1	69
8	Effect of the Composition and Coating Condition on the Structure and Performance of Catalyst Layer of PEFC. Journal of Chemical Engineering of Japan, 2007, 40, 808-816.	0.6	2
9	Existence of the Na-H ₂ O Dihydrogen Bond in the Hydrogenation Process by Na ₂ O: A First-Principles Identification. Journal of Physical Chemistry C, 2007, 111, 5064-5068.	3.1	5
10	A Platinum-Free Zero-Carbon-Emission Easy Fuelling Direct Hydrazine Fuel Cell for Vehicles. Angewandte Chemie - International Edition, 2007, 46, 8024-8027.	13.8	292
11	Dehydrogenation Reaction for Na ₂ O/H System: A First-Principles Study. ChemPhysChem, 2007, 8, 1979-1987.	2.1	2
12	A new fuel cell using aqueous ammonia-borane as the fuel. Journal of Power Sources, 2007, 168, 167-171.	7.8	69
13	Structural Characterization and Oxidative Dehydrogenation Activity of V ₂ O ₅ /Ce _x Zr _{1-x} O ₂ /SiO ₂ Catalysts. Journal of Physical Chemistry B, 2006, 110, 9140-9147.	2.6	63
14	A novel DME steam-reforming catalyst designed with fact database on-demand. Applied Surface Science, 2006, 252, 2593-2597.	6.1	38
15	Reaction of hydrogen with sodium oxide: A reversible hydrogenation/dehydrogenation system. Journal of Power Sources, 2006, 155, 167-171.	7.8	22
16	C ₂ F ₆ plasma treatment of a carbon support for a PEM fuel cell electrocatalyst. Journal of Power Sources, 2006, 161, 836-838.	7.8	18
17	Effects of alkali metal cations on the structures, physico-chemical properties and catalytic behaviors of silica-supported vanadium oxide catalysts for the selective oxidation of ethane and the complete oxidation of diesel soot. Topics in Catalysis, 2006, 38, 309-325.	2.8	18
18	Effect of support on the activity of Ga ₂ O ₃ species for steam reforming of dimethyl ether. Applied Catalysis A: General, 2006, 300, 58-66.	4.3	26

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19	Optimization of reaction conditions for cyclohexene epoxidation with H ₂ O ₂ over nanocrystalline mesoporous TiO ₂ loaded with RuO ₂ . <i>Journal of Molecular Catalysis A</i> , 2006, 248, 226-232.	4.8	15
20	A Direct CO Polymer Electrolyte Membrane Fuel Cell. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 3120-3122.	13.8	46
21	Utilization of Combinatorial Method and High Throughput Experimentation for Development of Heterogeneous Catalysts. <i>Journal of the Japan Petroleum Institute</i> , 2006, 49, 157-167.	0.6	14
22	Catalysis of nanocrystalline mesoporous TiO ₂ on cyclohexene epoxidation with H ₂ O ₂ : Effects of mesoporosity and metal oxide additives. <i>Journal of Molecular Catalysis A</i> , 2005, 241, 23-32.	4.8	51
23	Graphite intercalation compounds as PEMFC electrocatalyst supports. <i>Carbon</i> , 2005, 43, 2374-2378.	10.3	19
24	The reducing capability of palladium segregated from perovskite-type LaFePdO _x automotive catalysts. <i>Applied Catalysis A: General</i> , 2005, 296, 114-119.	4.3	39
25	Redox behavior of palladium at start-up in the Perovskite-type LaFePdO _x automotive catalysts showing a self-regenerative function. <i>Applied Catalysis B: Environmental</i> , 2005, 57, 267-273.	20.2	131
26	Surface characterization and catalytic activity of sulfate-, molybdate- and tungstate-promoted Al ₂ O ₃ •ZrO ₂ solid acid catalysts. <i>Journal of Molecular Catalysis A</i> , 2005, 227, 81-89.	4.8	83
27	Metal oxide catalysts for DME steam reforming: Ga ₂ O ₃ and Ga ₂ O ₃ •Al ₂ O ₃ catalysts with and without copper. <i>Applied Catalysis A: General</i> , 2005, 286, 11-22.	4.3	65
28	Metal oxide catalysts for DME steam reforming: Ga ₂ O ₃ and Ga ₂ O ₃ ?Al ₂ O ₃ catalysts. <i>Catalysis Letters</i> , 2005, 100, 247-253.	2.6	29
29	Combinatorial Catalysis for Hydrogen Production from Ethanol. <i>Materials Research Society Symposia Proceedings</i> , 2005, 894, 1.	0.1	0
30	A semiconductor gas sensor system for high throughput screening of heterogeneous catalysts for the production of benzene derivatives. <i>Measurement Science and Technology</i> , 2005, 16, 229-234.	2.6	9
31	Gas Sensor Technology for High-Throughput Screening in Catalysis. , 2005, , 189-209.		0
32	Instruments for preparation of heterogeneous catalysts by an impregnation method. <i>Review of Scientific Instruments</i> , 2005, 76, 062226.	1.3	7
33	Graphite intercalation compounds used for electrocatalyst support. <i>Tanso</i> , 2005, 2005, 155-158.	0.1	1
34	Dispersion Control of Nano-Particles and the Effect of the Coating Condition on the Performance of Proton-Exchange Membrane Fuel Cells (PEMFCs). <i>Journal of Chemical Engineering of Japan</i> , 2004, 37, 31-39.	0.6	14
35	A combinatorial study on catalytic synergism in supported metal catalysts for fuel cell technology. <i>Applied Surface Science</i> , 2004, 223, 102-108.	6.1	18
36	High-throughput screening of PEMFC anode catalysts by IR thermography. <i>Applied Surface Science</i> , 2004, 223, 220-223.	6.1	19

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37	Novel Selective Oxidation of Light Alkanes Using Carbon Dioxide. Oxidized Diamond as a Novel Catalytic Medium.. ChemInform, 2004, 35, no.	0.0	0
38	Oxidized Diamond as a Simultaneous Production Medium of Carbon Nanomaterials and Hydrogen for Fuel Cell.. ChemInform, 2004, 35, no.	0.0	0
39	The roles of redox and acid-base properties of silica-supported vanadia catalysts in the selective oxidation of ethane. Catalysis Today, 2004, 93-95, 163-171.	4.4	60
40	Potential application of anion-exchange membrane for hydrazine fuel cell electrolyte. Electrochemistry Communications, 2003, 5, 892-896.	4.7	245
41	Effect of anode electrocatalyst for direct hydrazine fuel cell using proton exchange membrane. Journal of Power Sources, 2003, 122, 132-137.	7.8	102
42	Electrochemical oxidation of CO in sulfuric acid solution over Pt and PtRu catalysts modified with TaOx and NbOx. Catalysis Today, 2003, 84, 223-229.	4.4	32
43	Investigation of PEM type direct hydrazine fuel cell. Journal of Power Sources, 2003, 115, 236-242.	7.8	137
44	Optical CO sensitivity of Au-CuO composite film by use of the plasmon absorption change. Sensors and Actuators B: Chemical, 2003, 96, 589-595.	7.8	80
45	High throughput experiments on methane partial oxidation using molecular oxygen over silica doped with various elements. Applied Catalysis A: General, 2003, 254, 45-58.	4.3	20
46	Structural Characterization of CeO ₂ -TiO ₂ and V ₂ O ₅ /CeO ₂ -TiO ₂ Catalysts by Raman and XPS Techniques. Journal of Physical Chemistry B, 2003, 107, 5162-5167.	2.6	323
47	Synthesis Gas Production from Methane Using Oxidized-Diamond-Supported Group VIII Metal Catalysts. Energy & Fuels, 2003, 17, 971-976.	5.1	22
48	Oxidized Diamond as a Simultaneous Production Medium of Carbon Nanomaterials and Hydrogen for Fuel Cell. Chemistry of Materials, 2003, 15, 4571-4575.	6.7	37
49	Direct Formation of Acetaldehyde from Ethane Using Carbon Dioxide as a Novel Oxidant over Oxidized Diamond-Supported Catalysts. Journal of Physical Chemistry B, 2003, 107, 13419-13424.	2.6	25
50	The Role of Chemisorbed Oxygen on Diamond Surfaces for the Dehydrogenation of Ethane in the Presence of Carbon Dioxide. Journal of Physical Chemistry B, 2003, 107, 4048-4056.	2.6	66
51	Direct Polymer Electrolyte Fuel Cells Using L-Ascorbic Acid as a Fuel. Electrochemical and Solid-State Letters, 2003, 6, A257.	2.2	50
52	Structural Characterization of CeO ₂ -MO ₂ (M = Si ⁴⁺ , Ti ⁴⁺ , and Zr ⁴⁺) Mixed Oxides by Raman Spectroscopy, X-ray Photoelectron Spectroscopy, and Other Techniques. Journal of Physical Chemistry B, 2003, 107, 11475-11484.	2.6	166
53	Raman and X-ray Photoelectron Spectroscopy Study of CeO ₂ -ZrO ₂ and V ₂ O ₅ /CeO ₂ -ZrO ₂ Catalysts. Langmuir, 2003, 19, 3025-3030.	3.5	153
54	56 High throughput experiment on the investigation of oxidation catalysts with gas sensor system. Studies in Surface Science and Catalysis, 2003, 145, 275-278.	1.5	0

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55	Simple Preparation Method of Isolated Iron (III) Species on Silica Surface. Chemistry Letters, 2003, 32, 208-209.	1.3	10
56	Novel Selective Oxidation of Light Alkanes Using Carbon Dioxide. Oxidized Diamond as a Novel Catalytic Medium. Chemistry Letters, 2003, 32, 866-867.	1.3	12
57	High-Throughput Screening of Oxidation Catalysts with Gas Sensors. , 2003, , 247-259.		3
58	Surface Characterization of CeO ₂ /SiO ₂ and V ₂ O ₅ /CeO ₂ /SiO ₂ Catalysts by Raman, XPS, and Other Techniques. Journal of Physical Chemistry B, 2002, 106, 10964-10972.	2.6	149
59	Surface characterization of sulfate, molybdate, and tungstate promoted TiO ₂ -ZrO ₂ solid acid catalysts by XPS and other techniques. Applied Catalysis A: General, 2002, 228, 269-278.	4.3	130
60	Surface Characterization of La ₂ O ₃ ~TiO ₂ and V ₂ O ₅ /La ₂ O ₃ ~TiO ₂ Catalysts. Journal of Physical Chemistry B, 2002, 106, 5695-5700.	2.6	119
61	Title is missing!. Catalysis Letters, 2002, 80, 161-164.	2.6	24
62	Optimization of Fe/SiO ₂ based metal oxides as selective oxidation catalyst of propane with combinatorial approach. Research on Chemical Intermediates, 2002, 28, 397-407.	2.7	12
63	Oxidized Diamond Supported Ni Catalyst for Synthesis Gas Formation from Methane. Chemistry Letters, 2001, 30, 460-461.	1.3	20
64	Transient response of catalyst bed temperature in the pulsed reaction of partial oxidation of methane to synthesis gas over supported group VIII metal catalysts. Catalysis Today, 2001, 64, 31-41.	4.4	35
65	Odor identification using a SnO ₂ -based sensor array. Sensors and Actuators B: Chemical, 2001, 80, 51-58.	7.8	54
66	Partial oxidation of ethane into acetaldehyde and acrolein by oxygen over silica-supported bismuth catalysts. Applied Catalysis A: General, 2001, 207, 139-149.	4.3	13
67	Novel catalysts having NO _x -adsorption sites for the selective oxidation of ethane. Applied Catalysis A: General, 2001, 209, 391-399.	4.3	11
68	Role of Carbon Dioxide in the Dehydrogenation of Ethane over Gallium-Loaded Catalysts. Journal of Catalysis, 2001, 203, 87-93.	6.2	159
69	Rapid evaluation of oxidation catalysis by gas sensor system: total oxidation, oxidative dehydrogenation, and selective oxidation over metal oxide catalysts. Catalysis Today, 2001, 67, 379-387.	4.4	31
70	Selective oxidation of light alkanes to aldehydes over silica catalysts supporting mononuclear active sites ~ acrolein formation from ethane. Catalysis Today, 2001, 71, 69-76.	4.4	30
71	~»~f ³ ~.~f ³ ~.~ææ—™~ã«~šããã,~ãfšãfžã,~ãã,ã,ãš1æžœ. Electrochemistry, 2001, 69, 872-875.	1.4	6
72	Oxidized Diamond: A Novel Support for Catalytic Dehydrogenation. Chemistry Letters, 2000, 29, 1100-1101.	1.3	29

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73	Influence of dissolved oxygen on intensity modulated photocurrent spectroscopy (IMPS) at a silicon-hydrofluoric acid interface. <i>Electrochimica Acta</i> , 2000, 45, 2219-2225.	5.2	5
74	Effect of UV light irradiation on the morphology of pyrolyzed Co ₃ O ₄ films. <i>Solid State Ionics</i> , 2000, 136-137, 1291-1293.	2.7	5
75	Oxidation of ethane into acetaldehyde and acrolein over silica containing cesium and a very small amount of additives. <i>Applied Catalysis A: General</i> , 2000, 196, 37-42.	4.3	13
76	Title is missing!. <i>Catalysis Letters</i> , 2000, 64, 215-221.	2.6	88
77	Selective Oxidation of Ethane to Acetaldehyde and Acrolein over Silica-Supported Vanadium Catalysts Using Oxygen as Oxidant. <i>Journal of Catalysis</i> , 2000, 190, 215-227.	6.2	56
78	Partial oxidation of methane to synthesis gas over iridium-nickel bimetallic catalysts. <i>Applied Catalysis A: General</i> , 1999, 180, 183-193.	4.3	46
79	Oxidation of alkanes by TBHP in the presence of soluble titanium complexes. <i>Journal of Molecular Catalysis A</i> , 1999, 142, 77-84.	4.8	14
80	Oxidative removal of CO contained in hydrogen by using metal oxide catalysts. <i>International Journal of Hydrogen Energy</i> , 1999, 24, 355-358.	7.1	114
81	Optical humidity sensitivity of plasma-oxidized nickel oxide films. <i>Solid State Ionics</i> , 1999, 121, 307-311.	2.7	16
82	Transient Response of Catalyst Bed Temperature in the Pulsed Reaction of Partial Oxidation of Methane to Synthesis Gas over Supported Rhodium and Iridium Catalysts. <i>Journal of Catalysis</i> , 1999, 186, 405-413.	6.2	59
83	Acrolein formation in the oxidation of ethane over silica catalysts supporting iron and cesium. <i>Catalysis Letters</i> , 1999, 63, 79-82.	2.6	16
84	Partial oxidation of propene over metal oxide catalysts pretreated with NO ₂ . <i>Catalysis Letters</i> , 1998, 53, 73-76.	2.6	8
85	Title is missing!. <i>Catalysis Letters</i> , 1998, 55, 33-38.	2.6	24
86	Effect of support on the conversion of methane to synthesis gas over supported iridium catalysts. <i>Catalysis Letters</i> , 1998, 51, 163-167.	2.6	65
87	Two conversion maxima at 373 and 573K in the reduction of nitrogen monoxide with hydrogen over Pd/TiO ₂ catalyst. <i>Catalysis Today</i> , 1998, 45, 135-138.	4.4	144
88	Partial oxidation of methane to synthesis gas over supported iridium catalysts. <i>Applied Catalysis A: General</i> , 1998, 169, 281-290.	4.3	74
89	Dehydrogenation of ethane over gallium oxide in the presence of carbon dioxide. <i>Chemical Communications</i> , 1998, , 1025-1026.	4.1	154
90	Formation of Oxygenates in the Propane Oxidation over K ⁺ -Modified Fe/SiO ₂ Catalyst. <i>Chemistry Letters</i> , 1998, 27, 327-328.	1.3	14

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91	Two Reaction Paths at Different Temperatures in the Reduction of Nitrogen Monoxide with Hydrogen over Supported Palladium Catalysts. <i>Chemistry Letters</i> , 1998, 27, 595-596.	1.3	5
92	Optical recognition of CO and H ₂ by use of gas-sensitive Au@Co ₃ O ₄ composite films. <i>Journal of Materials Chemistry</i> , 1997, 7, 1779-1783.	6.7	200
93	Low-temperature water-gas shift reaction over gold deposited on TiO ₂ . <i>Chemical Communications</i> , 1997, , 271-272.	4.1	179
94	Combined effects of small gold particles on the optical gas sensing by transition metal oxide films. <i>Catalysis Today</i> , 1997, 36, 135-141.	4.4	93
95	Partial Oxidation of Methane to Synthesis Gas with Iridium-loaded Titania Catalyst. <i>Chemistry Letters</i> , 1996, 25, 1029-1030.	1.3	9
96	Humidity-sensitive optical absorption of Co ₃ O ₄ film. <i>Sensors and Actuators B: Chemical</i> , 1996, 32, 157-160.	7.8	63
97	Oxidation of methane to formaldehyde over FeSiO ₂ and Sn ₂ W mixed oxides. <i>Catalysis Today</i> , 1996, 32, 171-175.	4.4	68
98	Large optical CO sensitivity of NO ₂ -pretreated Au-NiO composite films. <i>Sensors and Actuators B: Chemical</i> , 1996, 36, 513-516.	7.8	23
99	Optical CO detection by use of CuO/Au composite films. <i>Sensors and Actuators B: Chemical</i> , 1995, 25, 851-853.	7.8	47
100	Formation of methanol by the gas phase partial oxidation of methane under normal pressures. <i>Journal of the Chemical Society Chemical Communications</i> , 1995, , 93.	2.0	11
101	Photoinduced hydrogen production from an aqueous solution of ethylene glycol over ultrafine gold supported on TiO ₂ . <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1994, 77, 59-67.	3.9	81
102	Influence of dry operating conditions: observation of oscillations and low temperature CO oxidation over Co ₃ O ₄ and Au/Co ₃ O ₄ catalysts. <i>Catalysis Letters</i> , 1994, 25, 257-264.	2.6	164
103	Enhancement in the optical CO sensitivity of NiO film by the deposition of ultrafine gold particles. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1994, 90, 1011.	1.7	44
104	Partial oxidation of methane over silica catalysts promoted by 3d transition metal ions. <i>Journal of the Chemical Society Chemical Communications</i> , 1994, , 1609.	2.0	39
105	Low-Temperature Oxidation of CO over Gold Supported on TiO ₂ , γ -Fe ₂ O ₃ , and Co ₃ O ₄ . <i>Journal of Catalysis</i> , 1993, 144, 175-192.	6.2	2,148
106	Development of carbon monoxide detector using Au fine particles-doped γ -Fe ₂ O ₃ . <i>Sensors and Actuators B: Chemical</i> , 1993, 14, 536-538.	7.8	37
107	Enhancing effect of gold deposition in the optical detection of reducing gases in air by metal oxide thin films. <i>Sensors and Actuators B: Chemical</i> , 1993, 14, 545-546.	7.8	23
108	Preparation of Highly Dispersed Gold on Titanium and Magnesium Oxide. <i>Studies in Surface Science and Catalysis</i> , 1991, , 695-704.	1.5	119

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109	Thin films of supported gold catalysts for CO detection. <i>Sensors and Actuators B: Chemical</i> , 1990, 1, 222-225.	7.8	77
110	Gold catalysts prepared by coprecipitation for low-temperature oxidation of hydrogen and of carbon monoxide. <i>Journal of Catalysis</i> , 1989, 115, 301-309.	6.2	3,040
111	XAFS studies of ultra-fine gold catalysts supported on hematite prepared from coprecipitated precursors. <i>Physica B: Condensed Matter</i> , 1989, 158, 183-184.	2.7	10
112	A selective CO sensor using Ti-doped γ -Fe ₂ O ₃ with coprecipitated ultrafine particles of gold. <i>Sensors and Actuators</i> , 1988, 13, 339-349.	1.7	120
113	Electrochromism in Iridium Oxide Films Prepared by Thermal Oxidation of Iridium-Carbon Composite Films. <i>Journal of the Electrochemical Society</i> , 1987, 134, 570-575.	2.9	51
114	Novel Gold Catalysts for the Oxidation of Carbon Monoxide at a Temperature far Below 0 °C. <i>Chemistry Letters</i> , 1987, 16, 405-408.	1.3	2,872
115	Electrochemical reactions concerned with electrochromism of polyaniline film-coated electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1984, 177, 281-291.	0.1	384
116	Oxidative degradation pathway of polyaniline film electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1984, 177, 293-297.	0.1	352
117	Polyaniline film-coated electrodes as electrochromic display devices. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1984, 161, 419-423.	0.1	648
118	Role of Pt Overlayers on TiO ₂ Electrodes in Enhancement of the Rate of Cathodic Processes. <i>Journal of the Electrochemical Society</i> , 1983, 130, 1706-1711.	2.9	25
119	Effective surfaces of semiconductor catalysts for light-induced heterogeneous reactions evaluated by simultaneous photodeposition of both oxidation and reduction products. <i>The Journal of Physical Chemistry</i> , 1983, 87, 768-775.	2.9	47
120	Photoelectrochemical properties of Sr ²⁺ , Fe ³⁺ , Nb oxides having perovskite structure. <i>Electrochimica Acta</i> , 1982, 27, 1129-1133.	5.2	7
121	The role of surface flaws in competitive photoanodic processes at TiO ₂ electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1982, 138, 105-119.	0.1	12
122	Factors Governing the Competition in Electrochemical Reactions at Illuminated Semiconductors. <i>ACS Symposium Series</i> , 1981, , 131-143.	0.5	1
123	Effects of illumination intensity and solution pH on the competitive oxidation of halide ions and water at an illuminated TiO ₂ electrode. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1981, 122, 133-145.	0.1	17
124	Influence of the reactivity of reducing agents on anodic photocurrents at TiO ₂ electrodes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1981, 124, 179-188.	0.1	11
125	Effects of illumination intensity and solution pH on the competitive oxidation of halide ions and water at an illuminated TiO ₂ electrode. <i>Journal of Electroanalytical Chemistry (1959)</i> , 1981, 122, 133-145.	0.1	0
126	EFFECT OF ILLUMINATION INTENSITY ON STABILIZATION OF ZnO PHOTOANODES IN HALIDE SOLUTIONS. <i>Chemistry Letters</i> , 1979, 8, 457-460.	1.3	7