Albert Oszko

List of Publications by Year in descending order

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87 papers	3,347 citations	117625 34 h-index	161849 54 g-index
87 all docs	87 docs citations	87 times ranked	4279 citing authors

#	Article	IF	Citations
1	Aromatization of Methane over Supported and Unsupported Mo-Based Catalysts. Journal of Catalysis, 1997, 165, 150-161.	6.2	377
2	CO2 reforming of methane over supported LaNiO3 perovskite-type oxides. Applied Catalysis B: Environmental, 2018, 221, 349-361.	20.2	150
3	Effects of Support and Rh Additive on Co-Based Catalysts in the Ethanol Steam Reforming Reaction. ACS Catalysis, 2014, 4, 1205-1218.	11.2	130
4	Photo-induced reactions in the CO 2 -methane system on titanate nanotubes modified with Au and Rh nanoparticles. Applied Catalysis B: Environmental, 2016, 199, 473-484.	20.2	108
5	The effect of particle shape on the activity of nanocrystalline TiO2 photocatalysts in phenol decomposition. Applied Catalysis B: Environmental, 2008, 84, 356-362.	20.2	104
6	Synthesis and characterization of silver nanoparticle/kaolinite composites. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2003, 220, 45-54.	4.7	102
7	Hydrothermal synthesis of prism-like and flower-like ZnO and indium-doped ZnO structures. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 340, 1-9.	4.7	93
8	Heat-treatment of isomorphously substituted ZSM-5 zeolites and its structural consequences. Applied Catalysis A: General, 1998, 175, 89-104.	4.3	71
9	On the role of catalyst, catalyst support and their interaction in synthesis of carbon nanotubes by CCVD. Materials Chemistry and Physics, 2003, 77, 536-541.	4.0	69
10	Attachment and proliferation of human osteoblast-like cells (MG-63) on laser-ablated titanium implant material. Materials Science and Engineering C, 2013, 33, 4251-4259.	7.3	68
11	Structural properties and photocatalytic behaviour of phosphate-modified nanocrystalline titania films. Applied Catalysis B: Environmental, 2007, 77, 175-183.	20.2	67
12	Oxidation states of active catalytic centers in ethanol steam reforming reaction on ceria based Rh promoted Co catalysts: An XPS study. Journal of Molecular Catalysis A, 2015, 397, 127-133.	4.8	67
13	Generation and Reactions of CH2 and C2H5 Species on Mo2C/Mo(111) Surface. Journal of Catalysis, 1999, 185, 160-169.	6.2	58
14	Formation and reactions of CH3 species over Mo2C/Mo(111) surface. Catalysis Letters, 1999, 57, 103-107.	2.6	57
15	The influence of the local structure of Fe(III) on the photocatalytic activity of doped TiO2 photocatalystsâ€"An EXAFS, XPS and MÂ¶ssbauer spectroscopic study. Applied Catalysis B: Environmental, 2011, 103, 232-239.	20.2	55
16	Preparation and characterization of mesoporous N-doped and sulfuric acid treated anatase TiO2 catalysts and their photocatalytic activity under UV and Vis illumination. Journal of Solid State Chemistry, 2009, 182, 3076-3084.	2.9	54
17	Probing the interaction of Rh, Co and bimetallic Rhâ€"Co nanoparticles with the CeO₂ support: catalytic materials for alternative energy generation. Physical Chemistry Chemical Physics, 2015, 17, 27154-27166.	2.8	52
18	Rh-Induced Support Transformation Phenomena in Titanate Nanowire and Nanotube Catalysts. Langmuir, 2013, 29, 3061-3072.	3.5	50

#	Article	IF	Citations
19	Synthesis and characterization of Ag/Au alloy and core(Ag)â€“shell(Au) nanoparticles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 415, 281-287.	4.7	49
20	Dry reforming of CH4 on Rh doped Co/Al2O3 catalysts. Catalysis Today, 2014, 228, 123-130.	4.4	49
21	XPS characterisation of catalysts during production of multiwalled carbon nanotubes. Physical Chemistry Chemical Physics, 2001, 3, 155-158.	2.8	48
22	Stability and Temperature-Induced Agglomeration of Rh Nanoparticles Supported by CeO₂. Langmuir, 2016, 32, 2761-2770.	3.5	47
23	The effect of particle shape on the activity of nanocrystalline TiO2 photocatalysts in phenol decomposition. Part 3: The importance of surface quality. Applied Catalysis B: Environmental, 2010, 96, 577-585.	20.2	46
24	XPS study of multiwall carbon nanotube synthesis on Ni-, V-, and Ni, V-ZSM-5 catalysts. Applied Catalysis A: General, 2004, 260, 55-61.	4.3	44
25	Highly efficient bacteria inactivation and phenol degradation by visible light irradiated iodine doped TiO2. Applied Catalysis B: Environmental, 2013, 129, 194-201.	20.2	43
26	Catalytic decomposition and oxidation of CH3Cl on Cr2O3-doped SnO2. Applied Catalysis A: General, 1995, 131, 55-72.	4.3	42
27	Hydrogenation of Carbon Dioxide on Rh, Au and Auâ€“Rh Bimetallic Clusters Supported on Titanate Nanotubes, Nanowires and TiO2. Topics in Catalysis, 2012, 55, 747-756.	2.8	42
28	Synthesis of Polymer-Stabilized Nanosized Rhodium Particles in the Interlayer Space of Layered Silicates. Chemistry of Materials, 2004, 16, 1674-1685.	6.7	41
29	Adsorption and Reaction of CO2 on Mo2C Catalyst. Journal of Physical Chemistry B, 2002, 106, 9613-9618.	2.6	40
30	XRD and XPS analysis of laser treated vanadium oxide thin films. Applied Surface Science, 2009, 255, 9779-9782.	6.1	40
31	The influence of rapid heat treatment in still air on the photocatalytic activity of titania photocatalysts for phenol and monuron degradation. Applied Catalysis B: Environmental, 2011, 101, 461-470.	20.2	40
32	CO2 Hydrogenation on Rh/TiO2 Previously Reduced at Different Temperatures. Topics in Catalysis, 2002, 20, 107-117.	2.8	37
33	CO2 reforming of CH4 on doped Rh/Al2O3 catalysts. Catalysis Today, 2011, 171, 132-139.	4.4	37
34	Probing the interaction of Au, Rh and bimetallic Auâ€“Rh clusters with the TiO2 nanowire and nanotube support. Surface Science, 2011, 605, 1048-1055.	1.9	34
35	Reforming of ethanol on Pt/Al2O3-ZrO2 catalyst. Applied Catalysis A: General, 2010, 383, 33-42.	4.3	33
36	Structure and reactivity of Auâ€“Rh bimetallic clusters on titanate nanowires, nanotubes and TiO2(110). Catalysis Today, 2012, 181, 163-170.	4.4	33

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37	Dry reforming of CH4 on Co/Al2O3 catalysts reduced at different temperatures. Catalysis Today, 2017, 281, 233-240.	4.4	33
38	Partial oxidation of ethanol on supported Rh catalysts: Effect of the oxide support. Journal of Molecular Catalysis A, 2016, 411, 377-387.	4.8	32
39	Spectroscopic study on the formation of COâ^'2 on K-promoted Mo2C/Mo(100) surface. Surface Science, 2000, 461, 177-190.	1.9	30
40	Oxidation of Adsorbed CH3and C2H5Species on Rh(111). Journal of Catalysis, 1996, 159, 305-312.	6.2	29
41	Noble-Metal-Free Iron Nitride/Nitrogen-Doped Graphene Composite for the Oxygen Reduction Reaction. ACS Omega, 2019, 4, 130-139.	3.5	29
42	Corrosive effects of fluoride on titanium: Investigation by Xâ€ray photoelectron spectroscopy, atomic force microscopy, and human epithelial cell culturing. Journal of Biomedical Materials Research - Part A, 2008, 87A, 450-458.	4.0	26
43	Dynamic changes on the surface during the calcination of rapid heat treated TiO2 photocatalysts. Applied Catalysis B: Environmental, 2012, 111-112, 595-604.	20.2	26
44	Synthesis, characterization and photocatalytic activity of crystalline Mn(II)Cr(III)-layered double hydroxide. Catalysis Today, 2017, 284, 195-201.	4.4	26
45	The adsorption and surface reactions of allyl iodide on the Mo2C/Mo() surface. Surface Science, 2002, 519, 139-149.	1.9	25
46	Effect of H2S on the hydrogenation of carbon dioxide over supported Rh catalysts. Topics in Catalysis, 2007, 46, 79-86.	2.8	25
47	The CsxH3â^'xPW12O40 catalysts microstructure model. Applied Catalysis A: General, 2013, 451, 50-57.	4.3	25
48	Generation of C2H5Species:Â Thermal and Photoinduced Dissociation of C2H5I on Rh(111). Langmuir, 1996, 12, 4145-4152.	3.5	24
49	Photocatalytic performance of silver-modified TiO2 embedded in poly(ethyl-acrylate-co-methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.1	24
50	Nd:YAG laser synthesis of nanostructural V2O5 from vanadium oxide sols: Morphological and structural characterizations. Applied Surface Science, 2007, 254, 1363-1368.	6.1	23
51	Effects on titanium implant surfaces of chemical agents used for the treatment of periâ€implantitis. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2010, 94B, 222-229.	3.4	23
52	Correlating the visible light photoactivity of N-doped TiO2 with brookite particle size and bridged-nitro surface species. Catalysis Communications, 2012, 17, 1-7.	3.3	23
53	A photoelectron spectroscopic study of the carburization of MoO3. Applied Surface Science, 2007, 253, 3022-3028.	6.1	22
54	Metal loading determines the stabilization pathway for Co2+ in titanate nanowires: ion exchange vs. cluster formation. Physical Chemistry Chemical Physics, 2013, 15, 15917.	2.8	22

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55	Study on the effect of ambient gas on nanostructure formation on metal surfaces during femtosecond laser ablation for fabrication of low-reflective surfaces. Applied Surface Science, 2016, 389, 1113-1119.	6.1	21
56	XPS investigations on the feasibility of isomorphous substitution of octahedral Al3+ for Fe3+ in Keggin ion salts. Physical Chemistry Chemical Physics, 1999, 1, 2565-2568.	2.8	20
57	Partial oxidation of methane on potassium-promoted WO3/SiO2 and on K2WO4/SiO2 catalysts. Applied Catalysis A: General, 2001, 211, 109-121.	4.3	20
58	The adsorption and reactions of propyl iodide on clean and adsorbate-modified Mo2C/Mo() surfaces. Surface Science, 2002, 516, 74-84.	1.9	20
59	The direct synthesis of dimethyl carbonate by the oxicarbonylation of methanol over Cu supported on carbon nanotube. Journal of Molecular Catalysis A, 2014, 393, 117-124.	4.8	19
60	Hydrogen evolution in the photocatalytic reaction between methane and water in the presence of CO2 on titanate and titania supported Rh and Au catalysts. Topics in Catalysis, 2018, 61, 875-888.	2.8	19
61	Structural and luminescence properties of Y2O3:Eu3+ coreâ€“shell nanoparticles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 405, 6-13.	4.7	17
62	Spectroscopic studies on self-supporting multi-wall carbon nanotube based composite films for sensor applications. Journal of Molecular Structure, 2007, 834-836, 471-476.	3.6	16
63	Effects of phosphate modification on the structure and surface properties of ordered mesoporous SnO2. Microporous and Mesoporous Materials, 2010, 134, 79-86.	4.4	15
64	Titania nanotube stabilized BiOCl nanoparticles in visible-light photocatalysis. RSC Advances, 2017, 7, 16410-16422.	3.6	15
65	Incorporation of iron in sodalite structures and their transformation into other iron containing zeolitesSynthesis of Fe-NaA (LTA). Applied Catalysis A: General, 2002, 223, 147-160.	4.3	14
66	Hydrothermal synthesis and humidity sensing property of ZnO nanostructures and ZnOIn(OH)3 nanocomposites. Journal of Colloid and Interface Science, 2012, 378, 100-109.	9.4	14
67	The Effect of Rh on the Interaction of Co with Al2O3 and CeO2 Supports. Catalysis Letters, 2016, 146, 1800-1807.	2.6	14
68	Adsorption and decomposition of C6H5I on the Mo2C/Mo(100) surface. Surface Science, 2003, 539, 1-13.	1.9	13
69	The Synthesis of Dimethyl Carbonate by the Oxicarbonylation of Methanol Over Cu Supported on Carbon Norit. Catalysis Letters, 2015, 145, 881-892.	2.6	13
70	Gold Size Effect in the Thermal-Induced Reaction of CO₂ and H₂ on Titania- and Titanate Nanotube-Supported Gold Catalysts. Journal of Nanoscience and Nanotechnology, 2019, 19, 470-477.	0.9	13
71	Partial Oxidation of Methane on Silica-Supported Different Alkali Metal Molybdates. Journal of Catalysis, 2001, 199, 328-337.	6.2	12
72	Preparation of hexagonally aligned inorganic nanoparticles from diblock copolymer micellar systems. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 331, 213-219.	4.7	12

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73	Titanate nanotube thin films with enhanced thermal stability and high-transparency prepared from additive-free sols. Journal of Solid State Chemistry, 2012, 192, 342-350.	2.9	12
74	The interaction of 1-butyl iodide with the Mo2C/Mo() surface. Surface Science, 2004, 561, 57-68.	1.9	11
75	Laser-induced backside dry etching: wavelength dependence. Journal Physics D: Applied Physics, 2008, 41, 175501.	2.8	11
76	Structure of the Auâ€“Rh bimetallic system formed on titanate nanowires and nanotubes. Vacuum, 2011, 85, 1114-1119.	3.5	11
77	Comparison of the Production of Nanostructures on Bulk Metal Samples by Picosecond Laser Ablation at Two Wavelengths for the Fabrication of Low-reflective Surfaces. Journal of Laser Micro Nanoengineering, 2015, 10, 110-118.	0.1	11
78	Room temperature pulsed laser deposition of Si x C thin films inÂdifferent compositions. Applied Physics A: Materials Science and Processing, 2010, 100, 1115-1121.	2.3	10
79	Mesoporous carbon-supported Pd nanoparticles with high specific surface area for cyclohexene hydrogenation: Outstanding catalytic activity of NaOH-treated catalysts. Surface Science, 2016, 648, 114-119.	1.9	9
80	Photocatalysis on silver-layer silicate/titanium dioxide composite thin films at solid/vapour interface. Catalysis Today, 2009, 144, 160-165.	4.4	8
81	X-ray Photoelectron Spectroscopic and Atomic Force Microscopic Studies of Pyrolytically Coated Graphite and Highly Oriented Pyrolytic Graphite Used for Electrothermal Vaporization. Journal of Analytical Atomic Spectrometry, 1997, 12, 951-955.	3.0	7
82	Role of the nature of support on the structure of Auâ€“Rh bimetallic nanoparticles. Vacuum, 2012, 86, 594-598.	3.5	7
83	Formation and electrochemical behavior of self-assembled multilayers involving quinone. Electrochimica Acta, 2003, 48, 3499-3508.	5.2	6
84	Low-temperature sintering behavior of nanocrystalline indium tin oxide prepared from polymer-containing sols. Materials Research Bulletin, 2012, 47, 933-940.	5.2	5
85	MÃ¶ssbauer study of Al6 (Fe, Mn) formation in Al-rich Alâ^'Feâ^'Mn alloys. Journal of Radioanalytical and Nuclear Chemistry, 1990, 139, 127-134.	1.5	3
86	The decomposition of dimethyl carbonate over carbon supported Cu catalysts. Reaction Kinetics, Mechanisms and Catalysis, 2016, 117, 623-638.	1.7	3
87	Effects of Firing Conditions on the Properties of Calcareous Clay Roofing Tiles. Journal of Materials in Civil Engineering, 2014, 26, 175-183.	2.9	2