

Albert Oszko

List of Publications by Year in descending order

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87
papers

3,347
citations

117625

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161849

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all docs

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docs citations

87
times ranked

4279
citing authors

#	ARTICLE	IF	CITATIONS
1	Gold Size Effect in the Thermal-Induced Reaction of CO ₂ and H ₂ on Titania- and Titanate Nanotube-Supported Gold Catalysts. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 470-477.	0.9	13
2	Noble-Metal-Free Iron Nitride/Nitrogen-Doped Graphene Composite for the Oxygen Reduction Reaction. <i>ACS Omega</i> , 2019, 4, 130-139.	3.5	29
3	Hydrogen evolution in the photocatalytic reaction between methane and water in the presence of CO ₂ on titanate and titania supported Rh and Au catalysts. <i>Topics in Catalysis</i> , 2018, 61, 875-888.	2.8	19
4	CO ₂ reforming of methane over supported LaNiO ₃ perovskite-type oxides. <i>Applied Catalysis B: Environmental</i> , 2018, 221, 349-361.	20.2	150
5	Dry reforming of CH ₄ on Co/Al ₂ O ₃ catalysts reduced at different temperatures. <i>Catalysis Today</i> , 2017, 281, 233-240.	4.4	33
6	Titania nanotube stabilized BiOCl nanoparticles in visible-light photocatalysis. <i>RSC Advances</i> , 2017, 7, 16410-16422.	3.6	15
7	Synthesis, characterization and photocatalytic activity of crystalline Mn(II)Cr(III)-layered double hydroxide. <i>Catalysis Today</i> , 2017, 284, 195-201.	4.4	26
8	Study on the effect of ambient gas on nanostructure formation on metal surfaces during femtosecond laser ablation for fabrication of low-reflective surfaces. <i>Applied Surface Science</i> , 2016, 389, 1113-1119.	6.1	21
9	Photo-induced reactions in the CO ₂ -methane system on titanate nanotubes modified with Au and Rh nanoparticles. <i>Applied Catalysis B: Environmental</i> , 2016, 199, 473-484.	20.2	108
10	The Effect of Rh on the Interaction of Co with Al ₂ O ₃ and CeO ₂ Supports. <i>Catalysis Letters</i> , 2016, 146, 1800-1807.	2.6	14
11	The decomposition of dimethyl carbonate over carbon supported Cu catalysts. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2016, 117, 623-638.	1.7	3
12	Mesoporous carbon-supported Pd nanoparticles with high specific surface area for cyclohexene hydrogenation: Outstanding catalytic activity of NaOH-treated catalysts. <i>Surface Science</i> , 2016, 648, 114-119.	1.9	9
13	Partial oxidation of ethanol on supported Rh catalysts: Effect of the oxide support. <i>Journal of Molecular Catalysis A</i> , 2016, 411, 377-387.	4.8	32
14	Stability and Temperature-Induced Agglomeration of Rh Nanoparticles Supported by CeO ₂ . <i>Langmuir</i> , 2016, 32, 2761-2770.	3.5	47
15	The Synthesis of Dimethyl Carbonate by the Oxycarbonylation of Methanol Over Cu Supported on Carbon Norit. <i>Catalysis Letters</i> , 2015, 145, 881-892.	2.6	13
16	Probing the interaction of Rh, Co and bimetallic Rh-Co nanoparticles with the CeO ₂ support: catalytic materials for alternative energy generation. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 27154-27166.	2.8	52
17	Oxidation states of active catalytic centers in ethanol steam reforming reaction on ceria based Rh promoted Co catalysts: An XPS study. <i>Journal of Molecular Catalysis A</i> , 2015, 397, 127-133.	4.8	67
18	Comparison of the Production of Nanostructures on Bulk Metal Samples by Picosecond Laser Ablation at Two Wavelengths for the Fabrication of Low-reflective Surfaces. <i>Journal of Laser Micro Nanoengineering</i> , 2015, 10, 110-118.	0.1	11

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19	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
20	Photocatalytic performance of silver-modified TiO ₂ embedded in poly(ethyl-acrylate-co-methyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70	2.1	24
21	The direct synthesis of dimethyl carbonate by the oxycarbonylation of methanol over Cu supported on carbon nanotube. Journal of Molecular Catalysis A, 2014, 393, 117-124.	4.8	19
22	Dry reforming of CH ₄ on Rh doped Co/Al ₂ O ₃ catalysts. Catalysis Today, 2014, 228, 123-130.	4.4	49
23	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
24	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
25	Metal loading determines the stabilization pathway for Co ²⁺ in titanate nanowires: ion exchange vs. cluster formation. Physical Chemistry Chemical Physics, 2013, 15, 15917.	2.8	22
26	Rh-Induced Support Transformation Phenomena in Titanate Nanowire and Nanotube Catalysts. Langmuir, 2013, 29, 3061-3072.	3.5	50
27	The CsxH3âˆ”xPW12O40 catalysts microstructure model. Applied Catalysis A: General, 2013, 451, 50-57.	4.3	25
28	Highly efficient bacteria inactivation and phenol degradation by visible light irradiated iodine doped TiO ₂ . Applied Catalysis B: Environmental, 2013, 129, 194-201.	20.2	43
29	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
30	Structural and luminescence properties of Y ₂ O ₃ :Eu ³⁺ coreâ€”shell nanoparticles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 405, 6-13.	4.7	17
31	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
32	Hydrogenation of Carbon Dioxide on Rh, Au and Auâ€”Rh Bimetallic Clusters Supported on Titanate Nanotubes, Nanowires and TiO ₂ . Topics in Catalysis, 2012, 55, 747-756.	2.8	42
33	Correlating the visible light photoactivity of N-doped TiO ₂ with brookite particle size and bridged-nitro surface species. Catalysis Communications, 2012, 17, 1-7.	3.3	23
34	Structure and reactivity of Auâ€”Rh bimetallic clusters on titanate nanowires, nanotubes and TiO ₂ (110). Catalysis Today, 2012, 181, 163-170.	4.4	33
35	Dynamic changes on the surface during the calcination of rapid heat treated TiO ₂ photocatalysts. Applied Catalysis B: Environmental, 2012, 111-112, 595-604.	20.2	26
36	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

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37	Low-temperature sintering behavior of nanocrystalline indium tin oxide prepared from polymer-containing sols. <i>Materials Research Bulletin</i> , 2012, 47, 933-940.	5.2	5
38	Role of the nature of support on the structure of Au-Rh bimetallic nanoparticles. <i>Vacuum</i> , 2012, 86, 594-598.	3.5	7
39	CO2 reforming of CH4 on doped Rh/Al2O3 catalysts. <i>Catalysis Today</i> , 2011, 171, 132-139.	4.4	37
40	The influence of the local structure of Fe(III) on the photocatalytic activity of doped TiO2 photocatalysts—An EXAFS, XPS and Mössbauer spectroscopic study. <i>Applied Catalysis B: Environmental</i> , 2011, 103, 232-239.	20.2	55
41	The influence of rapid heat treatment in still air on the photocatalytic activity of titania photocatalysts for phenol and monuron degradation. <i>Applied Catalysis B: Environmental</i> , 2011, 101, 461-470.	20.2	40
42	Structure of the Au-Rh bimetallic system formed on titanate nanowires and nanotubes. <i>Vacuum</i> , 2011, 85, 1114-1119.	3.5	11
43	Probing the interaction of Au, Rh and bimetallic Au-Rh clusters with the TiO2 nanowire and nanotube support. <i>Surface Science</i> , 2011, 605, 1048-1055.	1.9	34
44	Room temperature pulsed laser deposition of Si x C thin films in different compositions. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 100, 1115-1121.	2.3	10
45	Effects of phosphate modification on the structure and surface properties of ordered mesoporous SnO2. <i>Microporous and Mesoporous Materials</i> , 2010, 134, 79-86.	4.4	15
46	Effects on titanium implant surfaces of chemical agents used for the treatment of peri-implantitis. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010, 94B, 222-229.	3.4	23
47	The effect of particle shape on the activity of nanocrystalline TiO2 photocatalysts in phenol decomposition. Part 3: The importance of surface quality. <i>Applied Catalysis B: Environmental</i> , 2010, 96, 577-585.	20.2	46
48	Reforming of ethanol on Pt/Al2O3-ZrO2 catalyst. <i>Applied Catalysis A: General</i> , 2010, 383, 33-42.	4.3	33
49	XRD and XPS analysis of laser treated vanadium oxide thin films. <i>Applied Surface Science</i> , 2009, 255, 9779-9782.	6.1	40
50	Preparation and characterization of mesoporous N-doped and sulfuric acid treated anatase TiO2 catalysts and their photocatalytic activity under UV and Vis illumination. <i>Journal of Solid State Chemistry</i> , 2009, 182, 3076-3084.	2.9	54
51	Photocatalysis on silver-layer silicate/titanium dioxide composite thin films at solid/vapour interface. <i>Catalysis Today</i> , 2009, 144, 160-165.	4.4	8
52	Hydrothermal synthesis of prism-like and flower-like ZnO and indium-doped ZnO structures. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009, 340, 1-9.	4.7	93
53	Corrosive effects of fluoride on titanium: Investigation by X-ray photoelectron spectroscopy, atomic force microscopy, and human epithelial cell culturing. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 87A, 450-458.	4.0	26
54	Preparation of hexagonally aligned inorganic nanoparticles from diblock copolymer micellar systems. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 331, 213-219.	4.7	12

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55	The effect of particle shape on the activity of nanocrystalline TiO ₂ photocatalysts in phenol decomposition. <i>Applied Catalysis B: Environmental</i> , 2008, 84, 356-362.	20.2	104
56	Laser-induced backside dry etching: wavelength dependence. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 175501.	2.8	11
57	A photoelectron spectroscopic study of the carburization of MoO ₃ . <i>Applied Surface Science</i> , 2007, 253, 3022-3028.	6.1	22
58	Nd:YAG laser synthesis of nanostructural V ₂ O ₅ from vanadium oxide sols: Morphological and structural characterizations. <i>Applied Surface Science</i> , 2007, 254, 1363-1368.	6.1	23
59	Structural properties and photocatalytic behaviour of phosphate-modified nanocrystalline titania films. <i>Applied Catalysis B: Environmental</i> , 2007, 77, 175-183.	20.2	67
60	Spectroscopic studies on self-supporting multi-wall carbon nanotube based composite films for sensor applications. <i>Journal of Molecular Structure</i> , 2007, 834-836, 471-476.	3.6	16
61	Effect of H ₂ S on the hydrogenation of carbon dioxide over supported Rh catalysts. <i>Topics in Catalysis</i> , 2007, 46, 79-86.	2.8	25
62	The interaction of 1-butyl iodide with the Mo ₂ C/Mo() surface. <i>Surface Science</i> , 2004, 561, 57-68.	1.9	11
63	XPS study of multiwall carbon nanotube synthesis on Ni-, V-, and Ni, V-ZSM-5 catalysts. <i>Applied Catalysis A: General</i> , 2004, 260, 55-61.	4.3	44
64	Synthesis of Polymer-Stabilized Nanosized Rhodium Particles in the Interlayer Space of Layered Silicates. <i>Chemistry of Materials</i> , 2004, 16, 1674-1685.	6.7	41
65	On the role of catalyst, catalyst support and their interaction in synthesis of carbon nanotubes by CCVD. <i>Materials Chemistry and Physics</i> , 2003, 77, 536-541.	4.0	69
66	Formation and electrochemical behavior of self-assembled multilayers involving quinone. <i>Electrochimica Acta</i> , 2003, 48, 3499-3508.	5.2	6
67	Adsorption and decomposition of C ₆ H ₅ I on the Mo ₂ C/Mo(100) surface. <i>Surface Science</i> , 2003, 539, 1-13.	1.9	13
68	Synthesis and characterization of silver nanoparticle/kaolinite composites. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2003, 220, 45-54.	4.7	102
69	Adsorption and Reaction of CO ₂ on Mo ₂ C Catalyst. <i>Journal of Physical Chemistry B</i> , 2002, 106, 9613-9618.	2.6	40
70	Incorporation of iron in sodalite structures and their transformation into other iron containing zeolites. Synthesis of Fe-NaA (LTA). <i>Applied Catalysis A: General</i> , 2002, 223, 147-160.	4.3	14
71	The adsorption and reactions of propyl iodide on clean and adsorbate-modified Mo ₂ C/Mo() surfaces. <i>Surface Science</i> , 2002, 516, 74-84.	1.9	20
72	The adsorption and surface reactions of allyl iodide on the Mo ₂ C/Mo() surface. <i>Surface Science</i> , 2002, 519, 139-149.	1.9	25

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73	CO ₂ Hydrogenation on Rh/TiO ₂ Previously Reduced at Different Temperatures. Topics in Catalysis, 2002, 20, 107-117.	2.8	37
74	XPS characterisation of catalysts during production of multiwalled carbon nanotubes. Physical Chemistry Chemical Physics, 2001, 3, 155-158.	2.8	48
75	Partial oxidation of methane on potassium-promoted WO ₃ /SiO ₂ and on K ₂ WO ₄ /SiO ₂ catalysts. Applied Catalysis A: General, 2001, 211, 109-121.	4.3	20
76	Partial Oxidation of Methane on Silica-Supported Different Alkali Metal Molybdates. Journal of Catalysis, 2001, 199, 328-337.	6.2	12
77	Spectroscopic study on the formation of CO [*] 2 on K-promoted Mo ₂ C/Mo(100) surface. Surface Science, 2000, 461, 177-190.	1.9	30
78	Generation and Reactions of CH ₂ and C ₂ H ₅ Species on Mo ₂ C/Mo(111) Surface. Journal of Catalysis, 1999, 185, 160-169.	6.2	58
79	Formation and reactions of CH ₃ species over Mo ₂ C/Mo(111) surface. Catalysis Letters, 1999, 57, 103-107.	2.6	57
80	XPS investigations on the feasibility of isomorphous substitution of octahedral Al ³⁺ for Fe ³⁺ in Keggin ion salts. Physical Chemistry Chemical Physics, 1999, 1, 2565-2568.	2.8	20
81	Heat-treatment of isomorphously substituted ZSM-5 zeolites and its structural consequences. Applied Catalysis A: General, 1998, 175, 89-104.	4.3	71
82	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
83	Aromatization of Methane over Supported and Unsupported Mo-Based Catalysts. Journal of Catalysis, 1997, 165, 150-161.	6.2	377
84	Generation of C ₂ H ₅ Species: Thermal and Photoinduced Dissociation of C ₂ H ₅ I on Rh(111). Langmuir, 1996, 12, 4145-4152.	3.5	24
85	Oxidation of Adsorbed CH ₃ and C ₂ H ₅ Species on Rh(111). Journal of Catalysis, 1996, 159, 305-312.	6.2	29
86	Catalytic decomposition and oxidation of CH ₃ Cl on Cr ₂ O ₃ -doped SnO ₂ . Applied Catalysis A: General, 1995, 131, 55-72.	4.3	42
87	Mössbauer study of Al ₆ (Fe, Mn) formation in Al-rich Al [*] Fe [*] Mn alloys. Journal of Radioanalytical and Nuclear Chemistry, 1990, 139, 127-134.	1.5	3