

Moti Herskowitz

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125
papers

3,377
citations

34
h-index

52
g-index

139
ext. papers

3,670
ext. citations

5.5
avg, IF

5.07
L-index

#	Paper	IF	Citations
125	Wetting stability of Si-MCM-41 mesoporous material in neutral, acidic and basic aqueous solutions. <i>Microporous and Mesoporous Materials</i> , 1999 , 33, 149-163	5.3	157
124	High loading of short WS ₂ slabs inside SBA-15: promotion with nickel and performance in hydrodesulfurization and hydrogenation. <i>Journal of Catalysis</i> , 2003 , 213, 163-175	7.3	152
123	Ultrasonically Controlled Deposition/Precipitation. <i>Journal of Catalysis</i> , 2001 , 201, 22-36	7.3	142
122	Hydrodesulfurization of Methyl-Substituted Dibenzothiophenes: Fundamental Study of Routes to Deep Desulfurization. <i>Journal of Catalysis</i> , 1996 , 159, 236-245	7.3	105
121	Cerium incorporated ordered manganese oxide OMS-2 materials: Improved catalysts for wet oxidation of phenol compounds. <i>Applied Catalysis B: Environmental</i> , 2005 , 59, 91-98	21.8	95
120	Effect of potassium on the active phases of Fe catalysts for carbon dioxide conversion to liquid fuels through hydrogenation. <i>Journal of Catalysis</i> , 2017 , 348, 29-39	7.3	81
119	Hydroprocessing of soybean oil on nickel-phosphide supported catalysts. <i>Fuel</i> , 2015 , 139, 684-691	7.1	81
118	Supported chromia catalysts for oxidation of organic compounds. <i>Applied Catalysis B: Environmental</i> , 2000 , 27, 73-85	21.8	80
117	Conversion of vegetable oils on Pt/Al ₂ O ₃ /SAPO-11 to diesel and jet fuels containing aromatics. <i>Fuel</i> , 2015 , 161, 287-294	7.1	76
116	High surface area chromia aerogel efficient catalyst and catalyst support for ethylacetate combustion. <i>Applied Catalysis B: Environmental</i> , 2004 , 47, 111-126	21.8	71
115	Hierarchical Zeolitic Imidazolate Framework-8 Catalyst for Monoglyceride Synthesis. <i>ChemCatChem</i> , 2013 , 5, 3562-3566	5.2	69
114	Mesoporous alumina catalytic material prepared by grafting wide-pore MCM-41 with an alumina multilayer. <i>Microporous and Mesoporous Materials</i> , 2001 , 49, 65-81	5.3	68
113	Using sonochemical methods for the preparation of mesoporous materials and for the deposition of catalysts into the mesopores. <i>Chemistry - A European Journal</i> , 2001 , 7, 4547-52	4.8	66
112	Combustion of chlorinated VOC on nanostructured chromia aerogel as catalyst and catalyst support. <i>Environmental Science & Technology</i> , 2005 , 39, 6845-50	10.3	65
111	A novel system consisting of Rh-DuPHOS and ionic liquid for asymmetric hydrogenations. <i>Chemical Communications</i> , 2001 , 2314-5	5.8	61
110	A commercially-viable, one-step process for production of green diesel from soybean oil on Pt/SAPO-11. <i>Fuel</i> , 2013 , 111, 157-164	7.1	57
109	Surface and exchange-bias effects in compacted CaMnO ₃ nanoparticles. <i>Physical Review B</i> , 2008 , 77,	3.3	56

108	Ultradeep Hydrodesulfurization and Adsorptive Desulfurization of Diesel Fuel on Metal-Rich Nickel Phosphides. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 5239-5249	3.9	55
107	Sustainable production of green feed from carbon dioxide and hydrogen. <i>ChemSusChem</i> , 2014 , 7, 785-948	3	54
106	Dehydrogenation of propane on modified Pt/Alumina Performance in hydrogen and steam environment. <i>Applied Catalysis A: General</i> , 2001 , 208, 185-191	5.1	52
105	Improvement of hydrothermal stability of Pt/SAPO-11 catalyst in hydrodeoxygenation/oligomerization/ aromatization of vegetable oil. <i>Journal of Catalysis</i> , 2015 , 332, 164-176	7.3	51
104	Low-temperature combustion of 2,4,6-trichlorophenol in catalytic wet oxidation with nanocasted Mn-Ce-oxide catalyst. <i>Journal of Catalysis</i> , 2007 , 247, 201-213	7.3	49
103	From macroalgae to liquid fuel via waste-water remediation, hydrothermal upgrading, carbon dioxide hydrogenation and hydrotreating. <i>Energy and Environmental Science</i> , 2016 , 9, 1828-1840	35.4	49
102	Colloidal Nanocrystals of Zeolite Stabilized in Alumina Matrix. <i>Chemistry of Materials</i> , 1999 , 11, 2030-2037	3.76	48
101	Grain boundary control in nanocrystalline MgO as a novel means for significantly enhancing surface basicity and catalytic activity. <i>Journal of Catalysis</i> , 2009 , 263, 196-204	7.3	46
100	Conversion of CO ₂ , CO, and H ₂ in CO ₂ Hydrogenation to Fungible Liquid Fuels on Fe-Based Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 13334-13355	3.9	42
99	Synthesis of Monoglycerides by Esterification of Oleic Acid with Glycerol in Heterogeneous Catalytic Process Using Tin-Organic Framework Catalyst. <i>Catalysis Letters</i> , 2013 , 143, 356-363	2.8	41
98	Size- and pressure-controlled ferromagnetism in LaCoO ₃ nanoparticles. <i>Physical Review B</i> , 2008 , 77,	3.3	40
97	Catalytic Wet Oxidation of Phenol with Mn-Ce-Based Oxide Catalysts: Impact of Reactive Adsorption on TOC Removal. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 5089-5097	3.9	40
96	Deep desulfurization of diesel fuels: kinetic modeling of model compounds in trickle-bed. <i>Catalysis Today</i> , 1999 , 48, 41-48	5.3	39
95	Magnetic properties of nanocrystalline La _{1-x} MnO ₃ +manganites: size effects. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 346210	1.8	37
94	Control of surface acidity and catalytic activity of Al ₂ O ₃ by adjusting the nanocrystalline contact interface. <i>Journal of Catalysis</i> , 2011 , 282, 215-227	7.3	36
93	Size effect on SBA-15 microporosity. <i>Microporous and Mesoporous Materials</i> , 2006 , 93, 313-317	5.3	36
92	Aqueous enantioselective hydrogenation of methyl 2-acetamidoacrylate with Rh-MeDuPHOS occluded in PDMS. <i>Chemical Communications</i> , 2002 , 388-9	5.8	35
91	Catalytic wet air oxidation of aniline with nanocasted Mn-Ce-oxide catalyst. <i>Environmental Science & Technology</i> , 2008 , 42, 5165-70	10.3	33

90	Cesium salt of a heteropolyacid in nanotubular channels and on the external surface of SBA-15 crystals: preparation and performance as acidic catalysts. <i>Microporous and Mesoporous Materials</i> , 2005 , 80, 43-55	5.3	32
89	Fe/SiO ₂ heterogeneous Fenton catalyst for continuous catalytic wet peroxide oxidation prepared in situ by grafting of iron released from LaFeO ₃ . <i>Applied Catalysis B: Environmental</i> , 2013 , 138-139, 276-284	21.8	31
88	Effect of metal dispersion in CO oxidation on supported Pt catalysts. <i>Journal of Catalysis</i> , 1982 , 74, 408-419	4.10	31
87	Hydrodearomatization of petroleum fuel fractions on silica supported NiW sulphide with increased stacking number of the WS ₂ phase?. <i>Fuel</i> , 2003 , 82, 633-639	7.1	29
86	Novel process and catalytic materials for converting CO ₂ and H ₂ containing mixtures to liquid fuels and chemicals. <i>Faraday Discussions</i> , 2015 , 183, 197-215	3.6	28
85	Magnetotransport in granular LaMnO ₃ +thanganite with nano-sized particles. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 185001	3	28
84	Selective propane dehydrogenation to propylene on novel bimetallic catalysts. <i>Catalysis Communications</i> , 2001 , 2, 179-185	3.2	28
83	Effect of preparation method and particle size on LaMnO ₃ performance in butane oxidation. <i>Catalysis Communications</i> , 2011 , 12, 1437-1441	3.2	27
82	Selectivity in heterogeneous catalytic processes. <i>Catalysis Today</i> , 1997 , 36, 497-510	5.3	27
81	Ultradeep Adsorption/Desulfurization of Gasoline with Ni/AlSiO ₂ Material Catalytically Facilitated by Ethanol. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 6904-6916	3.9	27
80	Dispersions of transition-metal-based phases in mesostructured silica matrixes: preparation of high-performance catalytic materials. <i>Comptes Rendus Chimie</i> , 2005 , 8, 679-691	2.7	27
79	CO oxidation on Pt supported catalysts. Kinetics and multiple steady states. <i>Canadian Journal of Chemical Engineering</i> , 1983 , 61, 194-199	2.3	27
78	Fixed-bed catalytic wet peroxide oxidation of phenol with titania and Au/titania catalysts in dark. <i>Catalysis Today</i> , 2015 , 241, 63-72	5.3	26
77	Regeneration of Poisoned Nickel Catalyst by Supercritical CO ₂ Extraction. <i>Industrial & Engineering Chemistry Research</i> , 2001 , 40, 1589-1590	3.9	25
76	Novel bifunctional catalysts based on crystalline multi-oxide matrices containing iron ions for CO ₂ hydrogenation to liquid fuels and chemicals. <i>Faraday Discussions</i> , 2016 , 188, 545-63	3.6	24
75	Density Functional Theory Study of Sulfur Adsorption at the (001) Surface of Metal-Rich Nickel Phosphides: Effect of the Ni/P Ratio. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 13313-13321	3.8	24
74	Modeling and simulation of a smart catalytic converter combining NO _x storage, ammonia production and SCR. <i>Chemical Engineering Journal</i> , 2009 , 155, 419-426	14.7	24
73	Medium severity hydrotreating and hydrocracking of Israeli shale oil III. Testing of novel catalyst systems in a trickle bed reactor. <i>Fuel</i> , 1998 , 77, 3-13	7.1	24

72	Kinetic experiments and modeling of NO oxidation and SCR of NO _x with decane over Cu- and Fe-MFI catalysts. <i>Applied Catalysis B: Environmental</i> , 2007 , 70, 53-57	21.8	24
71	Simulation of novel process of CO ₂ conversion to liquid fuels. <i>Journal of CO₂ Utilization</i> , 2017 , 17, 284-288	2.8	23
70	Modelling of a trickle-bed reactor for the hydrogenation of xylose to xylitol. <i>Chemical Engineering Science</i> , 1985 , 40, 1309-1311	4.4	23
69	A Simple Approach to Highly Sensitive Tubular Reactors. <i>SIAM Journal on Applied Mathematics</i> , 1988 , 48, 1083-1101	1.8	22
68	Enantioselective hydrogenation of methyl acetoacetate catalyzed by nickel supported on activated carbon or graphite. <i>Applied Catalysis A: General</i> , 2001 , 208, 91-98	5.1	20
67	Deep desulfurization of heavy atmospheric gas oil with CoMoAl catalysts effect of sulfur adsorption. <i>Applied Catalysis A: General</i> , 1995 , 122, 99-110	5.1	20
66	NO oxidation kinetics on iron zeolites: influence of framework type and iron speciation. <i>Topics in Catalysis</i> , 2004 , 30/31, 333-339	2.3	19
65	A comparative study of an MCM-41 anchored quaternary ammonium chloride/SnCl ₄ catalyst and its silica gel analogue. <i>Chemical Communications</i> , 2001 , 992-993	5.8	18
64	Synthesis of LaMnO ₃ in molten chlorides: effect of preparation conditions. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 10914-20	3.6	17
63	Magnetotransport properties of ferromagnetic LaMnO ₃ nano-sized crystals. <i>Journal of Magnetism and Magnetic Materials</i> , 2010 , 322, 1311-1314	2.8	17
62	Oxidative conversion of LPG to olefins with mixed oxide catalysts: Surface chemistry and reactions network. <i>Studies in Surface Science and Catalysis</i> , 1997 , 315-326	1.8	17
61	Alumina Foam Coated with Nanostructured Chromia Aerogel: Efficient Catalytic Material for Complete Combustion of Chlorinated VOC. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 7462-7469	3.9	17
60	Silica-supported small crystals of ZSM-5 zeolite. <i>Applied Catalysis A: General</i> , 1994 , 115, L7-L14	5.1	17
59	CO ₂ hydrogenation to higher hydrocarbons on K/FeAlO ₄ spinel catalysts promoted with Si, Ti, Zr, Hf, Mn and Ce. <i>Catalysis Science and Technology</i> , 2017 , 7, 4048-4063	5.5	15
58	Effect of silica wall microporosity on the state and performance of TiO ₂ nanocrystals in SBA-15 matrix. <i>Microporous and Mesoporous Materials</i> , 2008 , 116, 237-245	5.3	15
57	Metal particle structure: Contrasting the influences of carbons and refractory oxides. <i>Applied Catalysis A: General</i> , 1998 , 173, 273-287	5.1	14
56	Electrospun Fe-Al-O Nanobelts for Selective CO Hydrogenation to Light Olefins. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 24855-24867	9.5	13
55	Efficient immobilization of 12-tungstophosphoric acid catalyst at the surface of silica support grafted with alumina. <i>Catalysis Communications</i> , 2004 , 5, 327-331	3.2	13

54	Runaway in Highly Sensitive Tubular Reactors. <i>SIAM Journal on Applied Mathematics</i> , 1988 , 48, 1437-1450.	8	13
53	Heterogenization of Rh-MeDuPHOS by occlusion in polyvinyl alcohol films. <i>Tetrahedron: Asymmetry</i> , 2002 , 13, 465-468		12
52	The role and stability of Li ₂ O ₂ phase in supported LiCl catalyst in oxidative dehydrogenation of n-butane. <i>Journal of Molecular Catalysis A</i> , 2001 , 176, 127-139		12
51	Grain boundaries at the surface of consolidated MgO nanocrystals and acid-base functionality. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 14783-96	3.6	11
50	Effect of SBA-15 microporosity on the inserted TiO ₂ crystal size determined by Raman spectroscopy. <i>Materials Chemistry and Physics</i> , 2010 , 122, 53-59	4.4	11
49	O ₂ (1) generation in a bubble column reactor for chemically pumped iodine lasers: Experiment and modeling. <i>Journal of Applied Physics</i> , 1991 , 70, 5211-5220	2.5	11
48	Grain boundaries in nanocrystalline catalytic materials as a source of surface chemical functionality. <i>Reviews in Chemical Engineering</i> , 2014 , 30,	5	10
47	Effect of particle size on magnetic properties of nanoparticles. <i>Superlattices and Microstructures</i> , 2008 , 44, 476-482	2.8	10
46	High loading of short W(Mo)S ₂ slabs inside the nanotubes of SBA-15. Promotion with Ni(Co) and performance in hydrodesulfurization and hydrogenation.. <i>Studies in Surface Science and Catalysis</i> , 2003 , 146, 721-724	1.8	10
45	Aerobic oxidation of benzylic alcohols with solid alkaline metal hydroxides. <i>Kinetics and Catalysis</i> , 2010 , 51, 63-68	1.5	9
44	Metastable diamagnetic response of 20nm La _{1-x} MnO ₃ particles. <i>Physical Review B</i> , 2008 , 77,	3.3	9
43	Unexpected Performance of Solid Alkaline Metal Hydroxides in Liquid Phase Oxidation of 1-Phenylethanol. <i>Letters in Organic Chemistry</i> , 2006 , 3, 664-667	0.6	9
42	Ammoxidation of p-cresol to p-hydroxybenzoxonitrile High-performance boron-phosphoria supported catalysts. <i>Applied Catalysis A: General</i> , 2001 , 208, 21-34	5.1	9
41	Dehydrogenation of Neohexane to Neohexene on Platinum Polymetallic Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2002 , 41, 5949-5951	3.9	9
40	Deep hydrodesulfurization of atmospheric gas oil; Effects of operating conditions and modelling by artificial neural network techniques. <i>Fuel</i> , 1996 , 75, 907-911	7.1	9
39	Equilibrium Temperature Profiles in Highly Sensitive Tubular Reactors. <i>SIAM Journal on Applied Mathematics</i> , 1987 , 47, 1287-1305	1.8	9
38	Molten salt synthesis of LaCoO ₃ perovskite. <i>Journal of Materials Science</i> , 2017 , 52, 11383-11390	4.3	8
37	Attenuation of ultrasound in porous media with dispersed microbubbles. <i>Ultrasonics</i> , 2000 , 38, 767-9	3.5	8

36	Performance of Reverse Water Gas Shift on Coprecipitated and C-Templated BaFe-Hexaaluminate: The Effect of Fe Loading, Texture, and Promotion with K. <i>ChemCatChem</i> , 2018 , 10, 3795-3805	5.2	7
35	Novel nitrogen containing heterogeneous catalysts for oxidative dehydrogenation of light paraffins. <i>Catalysis Communications</i> , 2002 , 3, 327-333	3.2	7
34	Reverse Water Gas Shift by Chemical Looping with Iron-Substituted Hexaaluminate Catalysts. <i>Catalysts</i> , 2020 , 10, 1082	4	6
33	Medium severity hydrotreating and hydrocracking of Israeli shale oil. <i>Fuel</i> , 1998 , 77, 1589-1597	7.1	6
32	Kinetic Experiments and Modeling of a Complex DeNOx System: Decane Selective Catalytic Reduction of NOx in the Gas Phase and over an Fe-MFI Type Zeolite Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 4523-4533	3.9	6
31	Deactivation of a multimetal supported catalyst for anilineN-alkylation with alcohol. <i>Applied Catalysis A: General</i> , 1994 , 118, 139-152	5.1	6
30	Liquid-solid mass transfer in a trickle-bed reactor measured by means of a catalytic reaction. <i>Chemical Engineering Science</i> , 1985 , 40, 631-634	4.4	6
29	Pressure-induced suppression of ferromagnetic phase in LaCoO3 nanoparticles. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 5204-5206	3.9	5
28	The Sonochemical Insertion of Nanomaterials into Mesostructures. <i>Transactions of the Indian Ceramic Society</i> , 2004 , 63, 137-144	1.8	5
27	Hydrogenation of Benzaldehyde to Benzyl Alcohol in a Slurry and Fixed-Bed Reactor. <i>Studies in Surface Science and Catalysis</i> , 1991 , 105-112	1.8	5
26	Accurate one-dimensional fixed-bed reactor model based on asymptotic analysis. <i>AIChE Journal</i> , 1988 , 34, 1367-1372	3.6	5
25	Effect of Surface Chemistry and Crystallographic Parameters of TiO2 Anatase Nanocrystals on Photocatalytic Degradation of Bisphenol A. <i>Catalysts</i> , 2019 , 9, 447	4	4
24	CO2 reduction reactions: general discussion. <i>Faraday Discussions</i> , 2015 , 183, 261-90	3.6	4
23	ShapeSelectivity of Pt On Carbon Fibers Catalysts. <i>Studies in Surface Science and Catalysis</i> , 1993 , 78, 353-359	1.8	4
22	Vapor-liquid equilibrium of aqueous crown ether solutions. <i>Fluid Phase Equilibria</i> , 1984 , 17, 135-138	2.5	4
21	Conversion of hydrous bio-ethanol on Zn _x Zr _y O _z catalyst to renewable liquid chemicals and additives to gasoline. <i>Fuel Processing Technology</i> , 2020 , 198, 106246	7.2	4
20	Techno-economic analysis of a sustainable process for converting CO2 and H2O to feedstock for fuels and chemicals. <i>Sustainable Energy and Fuels</i> , 2021 , 5, 486-500	5.8	4
19	Electrospun nanofibers with surface oriented lamellar patterns and their potential applications. <i>Nanoscale</i> , 2020 , 12, 12993-13000	7.7	3

18	Homogeneous Tubular-Flow Process for Monoolein Preparation. <i>JAOCS, Journal of the American Oil Chemists Society</i> , 2015 , 92, 1525-1529	1.8	3
17	Application of Cs salt of 12-tungstophosphoric acid supported on SBA-15 mesoporous silica in NO _x storage. <i>Topics in Catalysis</i> , 2007 , 42-43, 203-207	2.3	3
16	Geometric and electronic factors in paraffin dehydrogenation on bimetallic platinum catalysts. <i>Reaction Kinetics and Catalysis Letters</i> , 2005 , 85, 341-345		3
15	Silica-supported crystals of ZSM-5 zeolite: effect of zeolite loading. <i>Studies in Surface Science and Catalysis</i> , 1995 , 357-362	1.8	3
14	Utilization of CO-rich waste gases from the steel industry for production of renewable liquid fuels. <i>Energy Conversion and Management</i> , 2021 , 240, 114233	10.6	3
13	Effect of salt type on the particle size of LaMn _{1-x} Fe _x O ₃ (0.1 ≤ x ≤ 0.5) synthesized in molten chlorides. <i>Materials Chemistry and Physics</i> , 2019 , 231, 181-187	4.4	2
12	Core-Shell FeO@LaSrFeO Material for Catalytic Oxidations: Coverage of Iron Oxide Core, Oxygen Storage Capacity and Reactivity of Surface Oxygens. <i>Materials</i> , 2021 , 14,	3.5	2
11	Effect of surface acidity-basicity balance in modified Zn _x Zr _y O _z catalyst on its performance in the conversion of hydrous ethanol to hydrocarbons. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 95, 156-169	6.3	2
10	Eco-Friendly and Sustainable Process for Converting Hydrous Bioethanol to Butanol. <i>Catalysts</i> , 2021 , 11, 498	4	2
9	Relationship of Crystals Shape, Aggregation Mode and Surface Purity in Catalytic Wet Peroxide Oxidation of Phenol in Dark with Titania Anatase Nanocrystals. <i>Catalysis Letters</i> , 2018 , 148, 3524-3533	2.8	2
8	Tail-selective hydrocracking of heavy gas oil in diesel production. <i>Studies in Surface Science and Catalysis</i> , 1997 , 371-378	1.8	1
7	Micro-level instability of bubble flows in packings. <i>Chemical Engineering Science</i> , 2003 , 58, 1631-1640	4.4	1
6	Hydrogenation of CO ₂ on Fe-Based Catalysts: Preferred Route to Renewable Liquid Fuels. <i>Industrial & Engineering Chemistry Research</i> ,	3.9	1
5	Dehydrogenation of methoxyisopropanol to methoxyacetone on supported bimetallic Cu-Zn catalysts. <i>Studies in Surface Science and Catalysis</i> , 1997 , 407-414	1.8	
4	Two-Phase Flow Filtrating in Packed Beds. <i>Chemie-Ingenieur-Technik</i> , 2001 , 73, 746-746	0.8	
3	Effects of gaseous and liquid components on rate of deep desulfurization of heavy atmospheric gas oil. <i>Studies in Surface Science and Catalysis</i> , 1999 , 127, 393-396	1.8	
2	A GENERAL RUNAWAY CRITERION FOR FIXED-BED REACTORS. <i>Chemical Engineering Communications</i> , 1990 , 96, 291-302	2.2	
1	Chemical looping reaction of methane with oxygen from La _{0.8} Sr _{0.2} FeO _{3-δ} and La _{0.8} Sr _{0.2} FeO _{3-δ} -Fe ₂ O ₃ systems to syngas. <i>Discover Chemical Engineering</i> , 2022 , 2, 1		

