

David Lennon

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Mechanistic Insight Into the Application of Alumina-Supported Pd Catalysts for the Hydrogenation of Nitrobenzene to Aniline. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 10712-10722.	3.7	7
2	Neutron spectroscopy studies of methanol to hydrocarbons catalysis over ZSM-5. <i>Catalysis Today</i> , 2021, 368, 20-27.	4.4	7
3	The interaction of CO with a copper(ii) chloride oxy-chlorination catalyst. <i>Faraday Discussions</i> , 2021, 229, 318-340.	3.2	2
4	Phosgene formation via carbon monoxide and dichlorine reaction over an activated carbon catalyst: Towards a reaction model. <i>Applied Catalysis A: General</i> , 2021, 609, 117900.	4.3	6
5	Studies of propene conversion over H-ZSM-5 demonstrate the importance of propene as an intermediate in methanol-to-hydrocarbons chemistry. <i>Catalysis Science and Technology</i> , 2021, 11, 2924-2938.	4.1	7
6	Phosgene Synthesis Catalysis: The Influence of Small Quantities of Bromine in the Chlorine Feedstream. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 3363-3373.	3.7	6
7	An Inelastic Neutron Scattering Investigation of the Temporal Behaviour of the Hydrocarbonaceous Overlayer of a Prototype Fischer-Tropsch to Olefins Catalyst. <i>Topics in Catalysis</i> , 2021, 64, 631-637.	2.8	1
8	A Comparison of Experimental Procedures for the Application of Infrared Spectroscopy to Probe the Surface Morphology of an Alumina-Supported Palladium Catalyst. <i>Topics in Catalysis</i> , 2021, 64, 1010-1020.	2.8	7
9	New Spectroscopic Insight into the Deactivation of a ZSM-5 Methanol-to-Hydrocarbons Catalyst. <i>ChemCatChem</i> , 2021, 13, 2625-2633.	3.7	7
10	The Characterisation of Hydrogen on Nickel and Cobalt Catalysts. <i>Topics in Catalysis</i> , 2021, 64, 644-659.	2.8	6
11	Net Zero and Catalysis: How Neutrons Can Help. <i>Physchem</i> , 2021, 1, 95-120.	1.1	3
12	A Spectroscopic Paradox: The Interaction of Methanol with ZSM-5 at Room Temperature. <i>Topics in Catalysis</i> , 2021, 64, 672-684.	2.8	5
13	Toward High Selectivity Aniline Synthesis Catalysis at Elevated Temperatures. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 17917-17927.	3.7	6
14	Perspectives on the effect of sulfur on the hydrocarbonaceous overlayer on iron Fischer-Tropsch catalysts. <i>Catalysis Today</i> , 2020, 339, 32-39.	4.4	11
15	Hydrogen Partitioning as a Function of Time-on-Stream for an Unpromoted Iron-Based Fischer-Tropsch Synthesis Catalyst Applied to CO Hydrogenation. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 52-60.	3.7	7
16	Isotopic substitution experiments in the hydrogenation of mandelonitrile over a carbon supported Pd catalyst: A nuclear magnetic resonance study. <i>Molecular Catalysis</i> , 2020, 484, 110720.	2.0	1
17	Hydrogenation on Palladium Nanoparticles Supported by Graphene Nanoplatelets. <i>Journal of Physical Chemistry C</i> , 2020, 124, 23674-23682.	3.1	15
18	The Application of Attenuated Total Reflection Infrared Spectroscopy to Investigate the Liquid Phase Hydrogenation of Benzaldehyde Over an Alumina-Supported Palladium Catalyst. <i>Topics in Catalysis</i> , 2020, 63, 386-393.	2.8	7

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19	The application of inelastic neutron scattering to investigate iron-based Fischer-Tropsch to olefins catalysis. <i>Journal of Catalysis</i> , 2020, 392, 197-208.	6.2	9
20	Toward Sustained Product Formation in the Liquid-Phase Hydrogenation of Mandelonitrile over a Pd/C Catalyst. <i>Organic Process Research and Development</i> , 2020, 24, 1112-1123.	2.7	7
21	The Effect of Co-feeding Methyl Acetate on the H-ZSM5 Catalysed Methanol-to-Hydrocarbons Reaction. <i>Topics in Catalysis</i> , 2020, 63, 370-377.	2.8	6
22	Phosgene formation via carbon monoxide and dichlorine reaction over an activated carbon catalyst: Reaction kinetics and mass balance relationships. <i>Applied Catalysis A: General</i> , 2020, 602, 117688.	4.3	9
23	Effect of steam de-alumination on the interactions of propene with H-ZSM-5 zeolites. <i>RSC Advances</i> , 2020, 10, 23136-23147.	3.6	15
24	The Application of Quasi-Elastic Neutron Scattering to Investigate Hydrogen Diffusion in an Iron-Based Fischer-Tropsch Synthesis Catalyst. <i>Topics in Catalysis</i> , 2020, 63, 378-385.	2.8	4
25	The Methyl Torsion in Unsaturated Compounds. <i>ACS Omega</i> , 2020, 5, 2755-2765.	3.5	11
26	Phosgene formation via carbon monoxide and dichlorine reaction over an activated carbon catalyst: Reaction testing arrangements. <i>Applied Catalysis A: General</i> , 2020, 594, 117467.	4.3	11
27	Onset of Propene Oligomerization Reactivity in ZSM-5 Studied by Inelastic Neutron Scattering Spectroscopy. <i>ACS Omega</i> , 2020, 5, 7762-7770.	3.5	9
28	The hydrogenation of mandelonitrile over a Pd/C catalyst: towards a mechanistic understanding. <i>RSC Advances</i> , 2019, 9, 26116-26125.	3.6	7
29	Investigating the Acid Site Distribution of a New-Generation Methyl Chloride Synthesis Catalyst. <i>ACS Omega</i> , 2019, 4, 13981-13990.	3.5	4
30	Examining the temporal behavior of the hydrocarbonaceous overlayer on an iron based Fischer-Tropsch catalyst. <i>RSC Advances</i> , 2019, 9, 2608-2617.	3.6	16
31	Low-temperature studies of propene oligomerization in ZSM-5 by inelastic neutron scattering spectroscopy. <i>RSC Advances</i> , 2019, 9, 18785-18790.	3.6	8
32	Hydrogenation of Benzonitrile over Supported Pd Catalysts: Kinetic and Mechanistic Insight. <i>Organic Process Research and Development</i> , 2019, 23, 977-989.	2.7	14
33	Investigation of the Dynamics of 1-Octene Adsorption at 293 K in a ZSM-5 Catalyst by Inelastic and Quasielastic Neutron Scattering. <i>Journal of Physical Chemistry C</i> , 2019, 123, 417-425.	3.1	12
34	Investigation of ZSM-5 catalysts for dimethylether conversion using inelastic neutron scattering. <i>Applied Catalysis A: General</i> , 2019, 569, 1-7.	4.3	17
35	Structural behaviour of copper chloride catalysts during the chlorination of CO to phosgene. <i>Faraday Discussions</i> , 2018, 208, 67-85.	3.2	3
36	Spectroscopic Characterization of Model Compounds, Reactants, and Byproducts Connected with an Isocyanate Production Chain. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 7355-7362.	3.7	4

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37	The production of tyramine via the selective hydrogenation of 4-hydroxybenzyl cyanide over a carbon-supported palladium catalyst. RSC Advances, 2018, 8, 29392-29399.	3.6	8
38	The effects of MTG catalysis on methanol mobility in ZSM-5. Catalysis Science and Technology, 2018, 8, 3304-3312.	4.1	23
39	Structure/activity relationships applied to the hydrogenation of $\hat{1}\pm, \hat{1}^2$ -unsaturated carbonyls: The hydrogenation of 3-butyne-2-one over alumina-supported palladium catalysts. Catalysis Today, 2017, 283, 110-118.	4.4	7
40	An assessment of hydrocarbon species in the methanol-to-hydrocarbon reaction over a ZSM-5 catalyst. Faraday Discussions, 2017, 197, 447-471.	3.2	34
41	Adsorption and Reaction of CO on (Pd \hat{e})Al ₂ O ₃ and (Pd \hat{e})ZrO ₂ : Vibrational Spectroscopy of Carbonate Formation. Topics in Catalysis, 2017, 60, 1722-1734.	2.8	22
42	Metal Fluorides, Metal Chlorides and Halogenated Metal Oxides as Lewis Acidic Heterogeneous Catalysts. Providing Some Context for Nanostructured Metal Fluorides. Molecules, 2017, 22, 201.	3.8	5
43	The development of a new generation of methyl chloride synthesis catalyst. Faraday Discussions, 2016, 188, 467-479.	3.2	11
44	Different routes to methanol: inelastic neutron scattering spectroscopy of adsorbates on supported copper catalysts. Physical Chemistry Chemical Physics, 2016, 18, 17253-17258.	2.8	26
45	The application of inelastic neutron scattering to investigate the interaction of methyl propanoate with silica. Physical Chemistry Chemical Physics, 2016, 18, 17210-17216.	2.8	6
46	Application of Inelastic Neutron Scattering to the Methanol-to-Gasoline Reaction Over a ZSM-5 Catalyst. Catalysis Letters, 2016, 146, 1242-1248.	2.6	16
47	The application of a supported palladium catalyst for the hydrogenation of aromatic nitriles. Journal of Molecular Catalysis A, 2016, 411, 239-246.	4.8	22
48	Structural and spectroscopic characterisation of C4 oxygenates relevant to structure/activity relationships of the hydrogenation of $\hat{1}\pm, \hat{1}^2$ -unsaturated carbonyls. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 153, 289-297.	3.9	1
49	The application of inelastic neutron scattering to explore the significance of a magnetic transition in an iron based Fischer-Tropsch catalyst that is active for the hydrogenation of CO. Journal of Chemical Physics, 2015, 143, 174703.	3.0	17
50	The application of inelastic neutron scattering to investigate a hydrogen pre-treatment stage of an iron Fischer-Tropsch catalyst. Applied Catalysis A: General, 2015, 489, 209-217.	4.3	14
51	The Preparation of a Residue-free, Alumina-supported Gold Catalyst by Decomposition of an Azido-Gold(III) Complex and an Evaluation of the Effectiveness of the Catalyst for the Hydrogenation of Propyne. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2015, 641, 694-698.	1.2	0
52	The application of inelastic neutron scattering to investigate CO hydrogenation over an iron Fischer-Tropsch synthesis catalyst. Journal of Catalysis, 2014, 312, 221-231.	6.2	33
53	Chlorination reactions relevant to the manufacture of trichloroethene and tetrachloroethene; Part 2: Effects of chlorine supply. Applied Catalysis A: General, 2014, 471, 149-156.	4.3	6
54	The Solvation and Dissociation of 4-Benzylaniline Hydrochloride in Chlorobenzene. Industrial & Engineering Chemistry Research, 2014, 53, 4156-4164.	3.7	4

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55	Inelastic Neutron Scattering Studies of Methyl Chloride Synthesis over Alumina. <i>Accounts of Chemical Research</i> , 2014, 47, 1220-1227.	15.6	26
56	Sample environment issues relevant to the acquisition of inelastic neutron scattering measurements of heterogeneous catalyst samples. <i>Journal of Physics: Conference Series</i> , 2014, 554, 012005.	0.4	30
57	The application of inelastic neutron scattering to investigate the "dry" reforming of methane over an alumina-supported nickel catalyst operating under conditions where filamentous carbon formation is prevalent. <i>RSC Advances</i> , 2013, 3, 16577-16589.	3.6	29
58	The application of inelastic neutron scattering to investigate the steam reforming of methane over an alumina-supported nickel catalyst. <i>Chemical Physics</i> , 2013, 427, 54-60.	1.9	28
59	Vibrational Analysis of an Industrial Fe-Based Fischer-Tropsch Catalyst Employing Inelastic Neutron Scattering. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5608-5611.	13.8	25
60	Origin of Impurities Formed in the Polyurethane Production Chain. 1. Conditions for Chlorine Transfer from an Aryl Isocyanide Dichloride Byproduct. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 2515-2523.	3.7	5
61	Origin of Impurities Formed in a Polyurethane Production Chain. Part 2: A Route to the Formation of Colored Impurities. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 11021-11030.	3.7	4
62	Application of inelastic neutron scattering to studies of CO ₂ reforming of methane over alumina-supported nickel and gold-doped nickel catalysts. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 15214.	2.8	40
63	Vibrational Spectroscopy with Neutrons: A Review of New Directions. <i>Applied Spectroscopy</i> , 2011, 65, 1325-1341.	2.2	143
64	Morphological and chemical influences on alumina-supported palladium catalysts active for the gas phase hydrogenation of crotonaldehyde. <i>Journal of Chemical Physics</i> , 2011, 134, 214704.	3.0	15
65	Chlorination and dehydrochlorination reactions relevant to the manufacture of trichloroethene and tetrachloroethene. <i>Applied Catalysis A: General</i> , 2011, 399, 1-11.	4.3	8
66	Experimental arrangements suitable for the acquisition of inelastic neutron scattering spectra of heterogeneous catalysts. <i>Review of Scientific Instruments</i> , 2011, 82, 034101.	1.3	24
67	The observation of equilibria present in stepwise gas phase hydrogenation reactions. <i>Catalysis Today</i> , 2010, 155, 206-213.	4.4	7
68	Persistent species formed during the carbon dioxide reforming of methane over a nickel-alumina catalyst. <i>Catalysis Today</i> , 2010, 155, 319-325.	4.4	28
69	No evidence for Evans' holes in the A, B, C vibrational structure of potassium dihydrogen arsenate. <i>Journal of Chemical Physics</i> , 2010, 133, 034508.	3.0	10
70	Quantification of surface species present on a nickel/alumina methane reforming catalyst. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 3102.	2.8	50
71	A structural and spectroscopic investigation of the hydrochlorination of 4,4'-methylenedianiline. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 3824.	2.8	12
72	A structural and spectroscopic investigation of the hydrochlorination of 4-benzylaniline: the interaction of anhydrous hydrogen chloride with chlorobenzene. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 288-297.	2.8	5

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73	The application of temperature-programmed desorption, adsorption isotherms and temperature-programmed oxidation to investigate the interaction of CO with alumina-supported palladium catalysts. <i>Catalysis Today</i> , 2007, 126, 219-227.	4.4	23
74	Improved atom efficiency via an appreciation of the surface activity of alumina catalysts: Methyl chloride synthesis. <i>Applied Catalysis B: Environmental</i> , 2007, 70, 606-610.	20.2	17
75	The interaction of alumina with HCl: An infrared spectroscopy, temperature-programmed desorption and inelastic neutron scattering study. <i>Catalysis Today</i> , 2006, 114, 403-411.	4.4	60
76	The Hydrogenation of 2-butyne-1,4-diol over a Carbon-supported Palladium Catalyst. <i>Catalysis Letters</i> , 2005, 103, 195-199.	2.6	21
77	Improved Description of the Surface Acidity of γ -Alumina. <i>Journal of Physical Chemistry B</i> , 2005, 109, 11592-11601.	2.6	87
78	A model high surface area alumina-supported palladium catalyst. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 565-567.	2.8	30
79	Introducing undergraduates to green chemistry: an interactive teaching exercise. <i>Green Chemistry</i> , 2005, 7, 121.	9.0	13
80	The Application of Diffuse Reflectance Infrared Spectroscopy and Temperature-Programmed Desorption To Investigate the Interaction of Methanol on γ -Alumina. <i>Langmuir</i> , 2005, 21, 11092-11098.	3.5	43
81	The application of infrared spectroscopy to probe the surface morphology of alumina-supported palladium catalysts. <i>Journal of Chemical Physics</i> , 2005, 123, 174706.	3.0	276
82	An infrared and inelastic neutron scattering spectroscopic investigation on the interaction of γ -alumina and methanol. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 3093.	2.8	44
83	Propyne hydrogenation over alumina-supported palladium and platinum catalysts. <i>Applied Catalysis A: General</i> , 2004, 259, 109-120.	4.3	71
84	The hydrogenation of 1,3-pentadiene over an alumina-supported palladium catalyst: an FTIR study. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 5588.	2.8	11
85	Characterization of Activated Carbon Using X-ray Photoelectron Spectroscopy and Inelastic Neutron Scattering Spectroscopy. <i>Langmuir</i> , 2002, 18, 4667-4673.	3.5	56
86	Effects of Substituents on the Structure and Bonding of Thiophene on Cu(111). <i>Journal of Physical Chemistry B</i> , 2001, 105, 5231-5237.	2.6	3
87	An inelastic neutron scattering spectroscopic investigation of the adsorption of ethene and propene on carbon. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 4447-4451.	2.8	16
88	Effect of Toluene-d8 on the Hydrogenation of 1,3-Hexadiene over a Pd/Silica Catalyst Promoter and Poison. <i>Langmuir</i> , 2000, 16, 6519-6526.	3.5	9
89	The effect of hydrogen concentration on propyne hydrogenation over a carbon supported palladium catalyst studied under continuous flow conditions. <i>Studies in Surface Science and Catalysis</i> , 2000, 130, 245-250.	1.5	31
90	Propyne hydrogenation over a silica-supported platinum catalyst studied under transient conditions. <i>Studies in Surface Science and Catalysis</i> , 1999, 122, 125-132.	1.5	6

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91	Variable-temperature, ^1H NMR study of hydrogen chemisorption on EuroPt-1. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 4709.	1.7	15
92	^1H NMR of hydrogen chemisorbed on silica-supported platinum particles: an evaluation of different models. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 2203.	1.7	9
93	Interaction of Methanol over CsCl- and KCl-Doped γ -Alumina and the Attenuation of Dimethyl Ether Formation. Journal of Physical Chemistry C, 0, , .	3.1	0