

Stewart F Parker

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3941278/publications.pdf>

Version: 2024-02-01

326
papers

8,281
citations

61984

43
h-index

82547

72
g-index

337
all docs

337
docs citations

337
times ranked

8949
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct hydrodeoxygenation of raw woody biomass into liquid alkanes. Nature Communications, 2016, 7, 11162.	12.8	359
2	Selective production of arenes via direct lignin upgrading over a niobium-based catalyst. Nature Communications, 2017, 8, 16104.	12.8	346
3	Poisoning and deactivation of palladium catalysts. Journal of Molecular Catalysis A, 2001, 173, 275-286.	4.8	268
4	Unravelling exceptional acetylene and carbon dioxide adsorption within a tetra-amide functionalized metal-organic framework. Nature Communications, 2017, 8, 14085.	12.8	193
5	Breaking the Limit of Lignin Monomer Production via Cleavage of Interunit Carbon-Carbon Linkages. Chem, 2019, 5, 1521-1536.	11.7	167
6	Vibrational Spectroscopy with Neutrons: A Review of New Directions. Applied Spectroscopy, 2011, 65, 1325-1341.	2.2	143
7	Inelastic neutron scattering study of reline: shedding light on the hydrogen bonding network of deep eutectic solvents. Physical Chemistry Chemical Physics, 2017, 19, 17998-18009.	2.8	132
8	Recent and future developments on TOSCA at ISIS. Journal of Physics: Conference Series, 2014, 554, 012003.	0.4	126
9	Hydrogen Spillover on Carbon-Supported Metal Catalysts Studied by Inelastic Neutron Scattering. Surface Vibrational States and Hydrogen Riding Modes. Journal of Physical Chemistry B, 2003, 107, 6838-6845.	2.6	118
10	From soft harmonic phonons to fast relaxational dynamics in CH_3COOH . Physical Review B, 2015, 92, .	2.2	108
11	Heterolytic and heterotopic dissociation of hydrogen on ceria-supported gold nanoparticles. Combined inelastic neutron scattering and FT-IR spectroscopic study on the nature and reactivity of surface hydrogen species. Chemical Science, 2010, 1, 731.	7.4	99
12	Improved Description of the Surface Acidity of γ -Alumina. Journal of Physical Chemistry B, 2005, 109, 11592-11601.	2.6	87
13	Spectroscopy and bonding in ternary metal hydride complexes—Potential hydrogen storage media. Coordination Chemistry Reviews, 2010, 254, 215-234.	18.8	84
14	The neutron guide upgrade of the TOSCA spectrometer. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 896, 68-74.	1.6	84
15	Vibrational dynamics of amorphous ice. Physical Review B, 1999, 59, 3569-3578.	3.2	80
16	The adsorption of atomic hydrogen on Cu(111) investigated by reflection-absorption infrared spectroscopy, electron energy loss spectroscopy and low energy electron diffraction. Surface Science, 1989, 215, 363-377.	1.9	78
17	Topological triplon modes and bound states in a Shastry-Sutherland magnet. Nature Physics, 2017, 13, 736-741.	16.7	70
18	High-Pressure Experimental and DFT-D Structural Studies of the Energetic Material FOX-7. Journal of Physical Chemistry C, 2015, 119, 2322-2334.	3.1	69

#	ARTICLE	IF	CITATIONS
19	Heat-induced Bone Diagenesis Probed by Vibrational Spectroscopy. <i>Scientific Reports</i> , 2018, 8, 15935.	3.3	67
20	Deactivation of a Single-Site Gold-on-Carbon Acetylene Hydrochlorination Catalyst: An X-ray Absorption and Inelastic Neutron Scattering Study. <i>ACS Catalysis</i> , 2018, 8, 8493-8505.	11.2	63
21	Raman Spectrum of β -Carotene Using Laser Lines from Green (514.5 nm) to Near-Infrared (1064 nm): Implications for the Characterization of Conjugated Polyenes. <i>Applied Spectroscopy</i> , 1999, 53, 86-91.	2.2	62
22	Investigations of activated carbon catalyst supports from different natural sources. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 1941-1949.	2.8	62
23	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
24	Understanding the Interactions between Vibrational Modes and Excited State Relaxation in $\text{Y}_3\text{CeAl}_5\text{O}_{12}$: Design Principles for Phosphors Based on f^4 Transitions. <i>Chemistry of Materials</i> , 2018, 30, 1865-1877.	6.7	59
25	Room temperature methoxylation in zeolites: insight into a key step of the methanol-to-hydrocarbons process. <i>Chemical Communications</i> , 2016, 52, 2897-2900.	4.1	58
26	Characterization of Activated Carbon Using X-ray Photoelectron Spectroscopy and Inelastic Neutron Scattering Spectroscopy. <i>Langmuir</i> , 2002, 18, 4667-4673.	3.5	56
27	Assignment of the vibrational spectrum of l-cysteine. <i>Chemical Physics</i> , 2013, 424, 75-79.	1.9	56
28	Experimental and DFT-D Studies of the Molecular Organic Energetic Material RDX. <i>Journal of Physical Chemistry C</i> , 2013, 117, 8062-8071.	3.1	56
29	Vibrational Spectroscopic Analysis of Silicones: A Fourier Transform-Raman and Inelastic Neutron Scattering Investigation. <i>Analytical Chemistry</i> , 2003, 75, 742-746.	6.5	55
30	Bone mineral: evidence for hydroxy groups by inelastic neutron scattering. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 1514-1517.	2.8	54
31	Vibrational neutron spectroscopy of collagen and model polypeptides. <i>Biophysical Journal</i> , 1995, 69, 660-673.	0.5	53
32	High-pressure polymorphism in salicylamide. <i>CrystEngComm</i> , 2010, 12, 1065.	2.6	52
33	AbINS: The modern software for INS interpretation. <i>Physica B: Condensed Matter</i> , 2018, 551, 443-448.	2.7	51
34	Quantification of surface species present on a nickel/alumina methane reforming catalyst. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 3102.	2.8	50
35	High-Resolution Vibrational Inelastic Neutron Scattering: A New Spectroscopic Tool for Globular Proteins. <i>Journal of the American Chemical Society</i> , 1997, 119, 9268-9273.	13.7	49
36	Inelastic neutron scattering spectra of the longitudinal acoustic modes of the normal alkanes from pentane to pentacosane. <i>Journal of Chemical Physics</i> , 1999, 111, 429-437.	3.0	46

#	ARTICLE	IF	CITATIONS
37	Polymers under extreme two-dimensional confinement: Poly(ethylene oxide) in graphite oxide. <i>Soft Matter</i> , 2011, 7, 7173.	2.7	46
38	Effect of acid pre-treatment on AuPd/SiO ₂ catalysts for the direct synthesis of hydrogen peroxide. <i>Catalysis Science and Technology</i> , 2013, 3, 812-818.	4.1	45
39	Evidence for a surface gold hydride on a nanostructured gold catalyst. <i>Chemical Communications</i> , 2016, 52, 533-536.	4.1	45
40	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
41	The Vibrational Spectrum and Ultimate Modulus of Polyethylene. <i>Macromolecules</i> , 2006, 39, 2683-2690.	4.8	44
42	Amides Do Not Always Work: Observation of Guest Binding in an Amide-Functionalized Porous Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2016, 138, 14828-14831.	13.7	44
43	Neutron spectroscopy as a tool in catalytic science. <i>Chemical Communications</i> , 2017, 53, 12164-12176.	4.1	44
44	Inelastic Neutron Scattering, Infrared, and Raman Spectroscopic Studies of Mg ₂ FeH ₆ and Mg ₂ FeD ₆ . <i>Inorganic Chemistry</i> , 1997, 36, 5218-5221.	4.0	43
45	Neutron scattering, infra red, Raman spectroscopy and ab initio study of l-threonine. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2001, 57, 2513-2523.	3.9	43
46	Inelastic Neutron Scattering and Raman Spectroscopies and Periodic DFT Studies of Rb ₂ PtH ₆ and Rb ₂ PtD ₆ . <i>Journal of the American Chemical Society</i> , 2003, 125, 11656-11661.	13.7	43
47	In situ spectroscopic investigation of oxidative dehydrogenation and disproportionation of benzyl alcohol. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 12147.	2.8	43
48	The effect of particle size, morphology and support on the formation of palladium hydride in commercial catalysts. <i>Chemical Science</i> , 2019, 10, 480-489.	7.4	43
49	Characterisation of the adsorption sites of hydrogen on Pt/C fuel cell catalysts. <i>Catalysis Today</i> , 2006, 114, 418-421.	4.4	42
50	Hydrogen Bonding in Amorphous Calcium Carbonate and Molecular Reorientation Induced by Dehydration. <i>Journal of Physical Chemistry C</i> , 2018, 122, 3591-3598.	3.1	42
51	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
52	A molecular view of cisplatin's mode of action: interplay with DNA bases and acquired resistance. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 5155-5171.	2.8	39
53	How Phonons Govern the Behavior of Short, Strong Hydrogen Bonds in Urea-Phosphoric Acid. <i>Journal of the American Chemical Society</i> , 2006, 128, 2963-2969.	13.7	38
54	Simultaneous Neutron Scattering and Raman Scattering. <i>Applied Spectroscopy</i> , 2009, 63, 727-732.	2.2	38

#	ARTICLE	IF	CITATIONS
55	The role of hydroxyl groups in low temperature carbon monoxide oxidation. Chemical Communications, 2011, 47, 1988.	4.1	38
56	Methanol diffusion in zeolite HY: a combined quasielastic neutron scattering and molecular dynamics simulation study. Physical Chemistry Chemical Physics, 2016, 18, 17294-17302.	2.8	38
57	Short-range structure of the brownmillerite-type oxide Ba ₂ In ₂ O ₅ and its hydrated proton-conducting form BaInO ₃ H. Journal of Materials Chemistry A, 2014, 2, 16915-16924.	10.3	37
58	Neutron Scattering Studies of Vapor Deposited Amorphous Ice. Physical Review Letters, 1997, 79, 1869-1872.	7.8	36
59	Inelastic neutron scattering spectroscopy of amino acids. Spectroscopy, 2008, 22, 297-307.	0.8	34
60	Characterization of Hydrus Palladium Oxide: Implications for Low-Temperature Carbon Monoxide Oxidation. Journal of Physical Chemistry C, 2010, 114, 14164-14172.	3.1	34
61	Polymorphism in Cisplatin Anticancer Drug. Journal of Physical Chemistry B, 2013, 117, 6421-6429.	2.6	34
62	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
63	A spectroscopic study of the structure of amorphous hydrogenated carbon. Journal of Physics Condensed Matter, 1995, 7, 10059-10073.	1.8	33
64	Characterization of ¹² Palladium Hydride Formation in the Lindlar Catalyst and in Carbon-Supported Palladium. Journal of Physical Chemistry C, 2011, 115, 24485-24493.	3.1	33
65	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
66	Inelastic Neutron Scattering Investigation of the Nature of Surface Sites Occupied by Hydrogen on Highly Dispersed Platinum on Commercial Carbon Black Supports. Journal of Catalysis, 2000, 196, 174-179.	6.2	32
67	Incoherent inelastic neutron scattering measurements on ice VII: Are there two kinds of hydrogen bonds in ice?. Europhysics Letters, 2005, 72, 576-582.	2.0	32
68	Quantum Delocalization of Molecular Hydrogen in Alkali-Graphite Intercalates. Physical Review Letters, 2008, 101, 126101.	7.8	32
69	Complete assignment of the vibrational modes of C60 by inelastic neutron scattering spectroscopy and periodic-DFT. Physical Chemistry Chemical Physics, 2011, 13, 7789.	2.8	32
70	Inelastic Neutron Scattering Study of Pt II Complexes Displaying Anticancer Properties. ChemPhysChem, 2011, 12, 1334-1341.	2.1	31
71	Phonon driven proton transfer in crystals with short strong hydrogen bonds. Journal of Chemical Physics, 2006, 124, 234503.	3.0	30
72	Sample environment issues relevant to the acquisition of inelastic neutron scattering measurements of heterogeneous catalyst samples. Journal of Physics: Conference Series, 2014, 554, 012005.	0.4	30

#	ARTICLE	IF	CITATIONS
91	Inelastic neutron scattering spectra of polyethylene. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996, 92, 1941.	1.7	26
92	Inelastic neutron scattering, IR and Raman spectroscopic studies of Mg ₂ CoH ₅ and Mg ₂ CoD ₅ . <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998, 94, 2595-2599.	1.7	26
93	Neutron spectroscopic study of hydrogen bonding dynamics in l-serine. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2002, 58, 2897-2904.	3.9	26
94	Identification of Surface States on Finely Divided Supported Palladium Catalysts by Means of Inelastic Incoherent Neutron Scattering. <i>Langmuir</i> , 2004, 20, 8254-8260.	3.5	26
95	Investigation of the Adsorption of Methanol on Alkali Metal Cation Exchanged Zeolite X by Inelastic Neutron Scattering. <i>Journal of Physical Chemistry B</i> , 2004, 108, 7902-7910.	2.6	26
96	Inelastic Neutron Scattering Studies of Methyl Chloride Synthesis over Alumina. <i>Accounts of Chemical Research</i> , 2014, 47, 1220-1227.	15.6	26
97	Different routes to methanol: inelastic neutron scattering spectroscopy of adsorbates on supported copper catalysts. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 17253-17258.	2.8	26
98	Electron-Phonon Coupling in Luminescent Europium-Doped Hydride Perovskites Studied by Luminescence Spectroscopy, Inelastic Neutron Scattering, and First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2018, 122, 10501-10509.	3.1	26
99	Comparison of two multifunctional catalysts [M/Nb ₂ O ₅ (M = Pd, Pt)] for one-pot hydrodeoxygenation of lignin. <i>Catalysis Science and Technology</i> , 2018, 8, 6129-6136.	4.1	26
100	Spectroscopic and Ab Initio Characterization of the [ReH ₉] ²⁻ Ion. <i>Inorganic Chemistry</i> , 2006, 45, 10951-10957.	4.0	25
101	Inelastic Neutron Scattering Study of Water in Hydrated LTA-Type Zeolites. <i>Journal of Physical Chemistry A</i> , 2006, 110, 1190-1195.	2.5	25
102	Inelastic Incoherent Neutron Scattering in Catalysis Research. <i>Advances in Catalysis</i> , 2007, , 99-132.	0.2	25
103	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
104	Adsorption of formate species on Cu(h,k,l) low index surfaces. <i>Surface Science</i> , 2016, 653, 45-54.	1.9	25
105	Inelastic neutron scattering investigation on the site occupation of atomic hydrogen on platinum particles of different size. <i>Journal of Catalysis</i> , 2004, 223, 44-53.	6.2	24
106	Infrared, Raman, and Inelastic Neutron Scattering Spectra of Dodecahedrane: A Molecule in Th Site Symmetry. <i>Journal of Physical Chemistry A</i> , 2005, 109, 3418-3424.	2.5	24
107	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
108	Assignment of the vibrational spectra of lithium hydroxide monohydrate, LiOH·H ₂ O. <i>Journal of Chemical Physics</i> , 2011, 134, 084503.	3.0	24

#	ARTICLE	IF	CITATIONS
109	Structure and dehydration mechanism of the proton conducting oxide Ba ₂ In ₂ O ₅ (H ₂ O) _x . Journal of Materials Chemistry A, 2016, 4, 1224-1232.	10.3	24
110	Hydrodeoxygenation of Guaiacol as a Bio-Oil Model Compound over Pillared Clay-Supported Nickel-Molybdenum Catalysts. Journal of Physical Chemistry C, 2019, 123, 21429-21439.	3.1	24
111	Local structure and vibrational dynamics in indium-doped barium zirconate. Journal of Materials Chemistry A, 2019, 7, 7360-7372.	10.3	24
112	Profiling of human burned bones: oxidising versus reducing conditions. Scientific Reports, 2021, 11, 1361.	3.3	24
113	Iron benzene reactions: A matrix isolation Mössbauer investigation. Journal of Organometallic Chemistry, 1984, 272, 411-416.	1.8	23
114	Conformational insights and vibrational study of a promising anticancer agent: the role of the ligand in Pd(amine) complexes. New Journal of Chemistry, 2015, 39, 6274-6283.	2.8	23
115	Molecular orientational melting within a lead-halide octahedron framework: The order-disorder transition in CH ₃ NH ₃ PbBr ₃ . Physical Review B, 2017, 96, .	3.2	23
116	The effects of MTG catalysis on methanol mobility in ZSM-5. Catalysis Science and Technology, 2018, 8, 3304-3312.	4.1	23
117	Adsorbed States of Hydrogen on Platinum: A New Perspective. Chemistry - A European Journal, 2019, 25, 6496-6499.	3.3	23
118	Control of zeolite microenvironment for propene synthesis from methanol. Nature Communications, 2021, 12, 822.	12.8	23
119	Rotational dynamics of methyl groups in durene: A crystallographic, spectroscopic, and molecular mechanics investigation. Journal of Chemical Physics, 1999, 110, 516-527.	3.0	22
120	INS and IR and NMR Spectroscopic Study of C ₁ -C ₄ Alcohols Adsorbed on Alkali Metal-Exchanged Zeolite X. Journal of Physical Chemistry B, 2004, 108, 15013-15026.	2.6	22
121	Vibrational spectra of synthetic crandallite-type minerals—optical and inelastic neutron scattering spectra. Journal of Raman Spectroscopy, 2006, 37, 208-216.	2.5	22
122	Characterisation of carbon supported platinum-ruthenium fuel cell catalysts of different degree of alloying. Surface Science, 2008, 602, 3611-3616.	1.9	22
123	Structure determination of adsorbed hydrogen on a real catalyst. Chemical Communications, 2010, 46, 2959.	4.1	22
124	The fine structure of Pearlman's catalyst. Physical Chemistry Chemical Physics, 2015, 17, 5274-5278.	2.8	22
125	Vibrational spectroscopy with neutrons: Recent developments. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 190, 518-523.	3.9	22
126	Band vs. polaron: vibrational motion and chemical expansion of hydride ions as signatures for the electronic character in oxyhydride barium titanate. Journal of Materials Chemistry A, 2019, 7, 16211-16221.	10.3	22

#	ARTICLE	IF	CITATIONS
127	The Vibrational Inelastic Neutron Scattering Spectrum of Dodecahedrane: Experiment and DFT Simulation. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 514-516.	13.8	21
128	Osteometrics in burned human skeletal remains by neutron and optical vibrational spectroscopy. <i>RSC Advances</i> , 2016, 6, 68638-68641.	3.6	21
129	A review of the theory of Fourier-transform Raman spectroscopy. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1994, 50, 1841-1856.	0.1	20
130	Vibrational spectroscopy of N-methylmaleimide. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 1995, 51, 2067-2072.	3.9	20
131	Inelastic neutron scattering spectra of the transverse acoustic modes of the normal alkanes. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 716-721.	2.8	20
132	Vibrational Properties of Polyanionic Hydrides SrAl ₂ H ₂ and SrAlSiH: New Insights into Al ⁺ H Bonding Interactions. <i>Inorganic Chemistry</i> , 2007, 46, 6987-6991.	4.0	20
133	Full Longitudinal Acoustic Mode (LAM) Spectrum of an N-Alkane: Comparison of Observed and Computed Incoherent Inelastic Neutron Scattering Spectrum of N-Octadecane. <i>Journal of Physical Chemistry B</i> , 1998, 102, 5955-5956.	2.6	19
134	Interaction of thiophene with a molybdenum disulfide catalyst—an inelastic neutron scattering study. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 3357-3363.	2.8	19
135	Influence of Particle Size and Water Coverage on the Thermodynamic Properties of Water Confined on the Surface of SnO ₂ Cassiterite Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2011, 115, 21105-21112.	3.1	19
136	Monte carlo simulations of the TOSCA spectrometer: Assessment of current performance and future upgrades. <i>EPJ Web of Conferences</i> , 2015, 83, 03013.	0.3	19
137	An investigation of the effect of carbon support on ruthenium/carbon catalysts for lactic acid and butanone hydrogenation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 17259-17264.	2.8	19
138	First analysis of ancient burned human skeletal remains probed by neutron and optical vibrational spectroscopy. <i>Science Advances</i> , 2019, 5, eaaw1292.	10.3	19
139	Chemosteometric regression models of heat exposed human bones to determine their pre-burnt metric dimensions. <i>American Journal of Physical Anthropology</i> , 2020, 173, 734-747.	2.1	19
140	Neutrons for Cultural Heritage—Techniques, Sensors, and Detection. <i>Sensors</i> , 2020, 20, 502.	3.8	19
141	Inelastic neutron scattering of large molecular systems: The case of the original benzylic amide [2]catenane. <i>Journal of Chemical Physics</i> , 1998, 109, 11094-11100.	3.0	18
142	Inelastic neutron scattering of model compounds for surface formates Potassium formate, copper formate and formic acid. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997, 93, 2569-2575.	1.7	17
143	Adsorbed states of dihydrogen on a carbon supported ruthenium catalyst Inelastic neutron scattering study. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998, 94, 1489-1493.	1.7	17
144	INS-, XPS- and SIMS-investigations on the controlled post-oxidation of pigment blacks. <i>Carbon</i> , 2001, 39, 1663-1676.	10.3	17

#	ARTICLE	IF	CITATIONS
145	Vibrational dynamics and phonon dispersion of polycrystalline ice XII and of high-density amorphous ice. <i>Physical Review B</i> , 2008, 77, .	3.2	17
146	Vibrational Spectra of Triiodomesitylene: Combination of DFT Calculations and Experimental Studies. Effects of the Environment. <i>Journal of Physical Chemistry A</i> , 2008, 112, 11124-11141.	2.5	17
147	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. <i>Journal of Chemical Physics</i> , 2015, 143, 174703.	3.0	17
148	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
149	Water in Deep Eutectic Solvents: New Insights From Inelastic Neutron Scattering Spectroscopy. <i>Frontiers in Physics</i> , 2022, 10, .	2.1	17
150	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
151	Inelastic neutron scattering, Raman spectroscopy and periodic DFT study of purine. <i>Vibrational Spectroscopy</i> , 2004, 35, 173-177.	2.2	16
152	The vibrational spectrum of indole: An inelastic neutron scattering study. <i>Chemical Physics</i> , 2008, 345, 230-238.	1.9	16
153	The thermodynamic properties of hydrated Al^{3+} -Al ₂ O ₃ nanoparticles. <i>Journal of Chemical Physics</i> , 2013, 139, 244705.	3.0	16
154	Hydrogen motions in defective graphene: the role of surface defects. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 24820-24824.	2.8	16
155	Application of Inelastic Neutron Scattering to the Methanol-to-Gasoline Reaction Over a ZSM-5 Catalyst. <i>Catalysis Letters</i> , 2016, 146, 1242-1248.	2.6	16
156	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
157	The characterisation of commercial 2D carbons: graphene, graphene oxide and reduced graphene oxide. <i>Materials Advances</i> , 2022, 3, 2810-2826.	5.4	16
158	Analysis of Carbon Black-Filled Polymers by Vibrational Spectroscopy. <i>Applied Spectroscopy</i> , 1994, 48, 669-673.	2.2	15
159	Structure and Dynamics of Maleic Anhydride. <i>Journal of Physical Chemistry A</i> , 2001, 105, 3064-3070.	2.5	15
160	Inelastic neutron scattering studies of hydrogen on fuel cell catalysts. <i>Vibrational Spectroscopy</i> , 2004, 35, 179-182.	2.2	15
161	Inelastic incoherent neutron scattering study of the molecular properties of pure hydrogen peroxide and its water mixtures of different concentration. <i>Journal of Chemical Physics</i> , 2014, 140, 164504.	3.0	15
162	Understanding the Role of Designed Solid Acid Sites in the Low-Temperature Production of ϵ -Caprolactam. <i>ChemCatChem</i> , 2017, 9, 1897-1900.	3.7	15

#	ARTICLE	IF	CITATIONS
163	Vibrational spectroscopy of metal methanesulfonates: M ⁺ =Na, Cs, Cu, Ag, Cd. Royal Society Open Science, 2018, 5, 171574.	2.4	15
164	Effect of steam de-alumination on the interactions of propene with H-ZSM-5 zeolites. RSC Advances, 2020, 10, 23136-23147.	3.6	15
165	The inelastic neutron scattering of two benzylic amide [2]catenanes. Journal of Chemical Physics, 2001, 114, 5006-5011.	3.0	14
166	Ethylidyne Tricobalt Nonacarbonyl: Infrared, FT-Raman, and Inelastic Neutron Scattering Spectra. Journal of Physical Chemistry A, 2002, 106, 5797-5802.	2.5	14
167	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
168	(C ₄ H ₁₂ N ₂)[CoCl ₄]: tetrahedrally coordinated Co ²⁺ without the orbital degeneracy. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2015, 71, 20-24.	1.1	14
169	Inelastic neutron scattering studies of synthetic calcium phosphates. Physical Chemistry Chemical Physics, 1999, 1, 3141-3144.	2.8	13
170	Neutron Inelastic Scattering as a High-Resolution Vibrational Spectroscopy: New Tool for the Study of Protein Dynamics. Spectroscopy, 2003, 17, 529-535.	0.8	13
171	Molecular Mechanisms of Survival Strategies in Extreme Conditions. Life, 2012, 2, 364-376.	2.4	13
172	Biomaterials from human bone – probing organic fraction removal by chemical and enzymatic methods. RSC Advances, 2018, 8, 27260-27267.	3.6	13
173	The effect of temperature on the structure of amorphous hydrogenated carbon. Physica Scripta, 1995, T57, 142-145.	2.5	12
174	A compact model system for electron-phonon calculations in discotic materials. Chemical Physics, 2006, 330, 360-364.	1.9	12
175	Metastable Nitric Acid Trihydrate in Ice Clouds. Angewandte Chemie - International Edition, 2016, 55, 3276-3280.	13.8	12
176	Investigation of the Dynamics of 1-Octene Adsorption at 293 K in a ZSM-5 Catalyst by Inelastic and Quasielastic Neutron Scattering. Journal of Physical Chemistry C, 2019, 123, 417-425.	3.1	12
177	The Design and Performance of the Indirect Geometry Spectrometer TOSCA. Journal of Neutron Research, 2002, 10, 173-177.	1.1	11
178	Inelastic Neutron Scattering Spectroscopy of Diazenides: Detection of the Ni ^{3/4} N Stretch. ChemPhysChem, 2002, 3, 815-817.	2.1	11
179	The hydrogenation of 1,3-pentadiene over an alumina-supported palladium catalyst: an FTIR study. Physical Chemistry Chemical Physics, 2004, 6, 5588.	2.8	11
180	Vibrational Properties of Bioprotectant Mixtures of Trehalose and Glycerol. Journal of Physical Chemistry B, 2011, 115, 11004-11009.	2.6	11

#	ARTICLE	IF	CITATIONS
181	Structure and spectroscopy of CuH prepared via borohydride reduction. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2015, 71, 608-612.	1.1	11
182	Applications of neutron scattering to heterogeneous catalysis. Journal of Physics: Conference Series, 2016, 746, 012066.	0.4	11
183	Perspectives on the effect of sulfur on the hydrocarbonaceous overlayer on iron Fischer-Tropsch catalysts. Catalysis Today, 2020, 339, 32-39.	4.4	11
184	The Methyl Torsion in Unsaturated Compounds. ACS Omega, 2020, 5, 2755-2765.	3.5	11
185	Structure and Vibrational Spectra of 2,5-Diiodothiophene: A Model for Polythiophene. Journal of Physical Chemistry C, 2017, 121, 12636-12642.	3.1	11
186	The effect of apodisation and finite resolution on Fourier transform infrared and Raman spectra. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1997, 53, 2245-2252.	3.9	10
187	The nine modes of complexed water. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1997, 53, 2333-2339.	3.9	10
188	An inelastic neutron scattering study of formate on copper surfaces. Surface Science, 1998, 402-404, 599-603.	1.9	10
189	Lattice dynamics and methyl rotational excitations of 2-butyne. Journal of Chemical Physics, 2002, 117, 1313-1319.	3.0	10
190	Vibrational spectroscopy and periodic DFT studies of LaMg ₂ PdH ₇ : A material with two types of hydride. Journal of Alloys and Compounds, 2009, 470, 80-84.	5.5	10
191	No evidence for Evans TM holes in the A, B, C vibrational structure of potassium dihydrogen arsenate. Journal of Chemical Physics, 2010, 133, 034508.	3.0	10
192	Assignment of Metal-Ligand Modes in Pt(II) Diimine Complexes Relevant to Solar Energy Conversion. Inorganic Chemistry, 2012, 51, 9748-9756.	4.0	10
193	The use of direct geometry spectrometers in molecular spectroscopy. Journal of Physics: Conference Series, 2014, 554, 012004.	0.4	10
194	An inelastic neutron scattering study of dietary phenolic acids. Physical Chemistry Chemical Physics, 2014, 16, 7491-7500.	2.8	10
195	Assignment of the Internal Vibrational Modes of C ₇₀ by Inelastic Neutron Scattering Spectroscopy and Periodic DFT. ChemistryOpen, 2015, 4, 620-625.	1.9	10
196	Novel platinum-based anticancer drug: a complete vibrational study. Acta Crystallographica Section C, Structural Chemistry, 2018, 74, 628-634.	0.5	10
197	Local Coordination of Protons in In- and Sc-Doped BaZrO ₃ . Journal of Physical Chemistry C, 2019, 123, 26065-26072.	3.1	10
198	The impact of moderate heating on human bones: an infrared and neutron spectroscopy study. Royal Society Open Science, 2021, 8, 210774.	2.4	10

#	ARTICLE	IF	CITATIONS
199	The effect of hydrogen dilution on the structure of a-C:H. <i>Journal of Physics Condensed Matter</i> , 1998, 10, 4161-4176.	1.8	9
200	The vibrational spectrum of methyltrioxorhenium(VII). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2000, 56, 1123-1129.	3.9	9
201	The inelastic incoherent neutron spectrum of crystalline oxamide: experiment and simulation of a solid. <i>Chemical Physics</i> , 2000, 261, 249-260.	1.9	9
202	Inelastic neutron scattering study on different grades of palladium of varying pretreatment. <i>Journal of Physics Condensed Matter</i> , 2000, 12, 4451-4463.	1.8	9
203	The vibrational spectra of norbornene and nadic anhydride. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 1508-1514.	2.8	9
204	Structure and spectroscopy of the supercapacitor material hydrous ruthenium oxide, RuO ₂ ·xH ₂ O, by neutron scattering*. <i>Molecular Physics</i> , 2019, 117, 3417-3423.	1.7	9
205	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
206	The role of oxygen vacancies on the vibrational motions of hydride ions in the oxyhydride of barium titanate. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6360-6371.	10.3	9
207	Volatile Hydrogen Intermediates of CO ₂ Methanation by Inelastic Neutron Scattering. <i>Catalysts</i> , 2020, 10, 433.	3.5	9
208	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
209	Characterisation of hydration water in Nafion membrane. <i>RSC Advances</i> , 2021, 11, 9381-9385.	3.6	9
210	High-Pressure Neutron Powder Diffraction Study of μ -CL-20: A Gentler Way to Study Energetic Materials. <i>Journal of Physical Chemistry C</i> , 2020, 124, 27985-27995.	3.1	9
211	Some consequences of the Fourier transform in Fourier transform Raman spectroscopy. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1993, 49, 657-666.	0.1	8
212	Applications of Neutron Scattering for Investigating Heterogeneous Catalysts. <i>Chemical Engineering and Technology</i> , 1999, 22, 135-137.	1.5	8
213	Dynamics of water and template molecules in the interlayer space of a layered aluminophosphate. Experimental inelastic neutron scattering spectra and molecular dynamics simulated spectra. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 5711-5715.	2.8	8
214	The vibrational spectrum of K ₂ PdCl ₄ : first detection of the silent mode $\hat{\Gamma}_{25}$. <i>Chemical Physics</i> , 2000, 261, 261-266.	1.9	8
215	Neutron scattering studies of catalyst systems at the ISIS neutron spallation source. <i>Applied Petrochemical Research</i> , 2012, 2, 97-104.	1.3	8
216	Understanding composition-property relationships in Ti-Cr-V-Mo alloys for optimisation of hydrogen storage in pressurised tanks. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 16563-16572.	2.8	8

#	ARTICLE	IF	CITATIONS
217	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
218	Exploiting the flexibility of the pyrochlore composition for acid-resilient iridium oxide electrocatalysts in proton exchange membranes. <i>Journal of Materials Chemistry A</i> , 2021, 9, 25114-25127.	10.3	8
219	The Polymerization of Acetylene-terminated Imides Studied by Vibrational Spectroscopy. <i>High Performance Polymers</i> , 1989, 1, 311-321.	1.8	7
220	The effect of apodization and finite resolution on Fourier transform Raman spectra. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1991, 47, 1171-1178.	0.1	7
221	The application of vibrational spectroscopy to the study of polyimides and their composites. <i>Vibrational Spectroscopy</i> , 1992, 3, 87-104.	2.2	7
222	K ₂ MCl ₆ (M=Pt, Ir), location of the silent modes and forcefields. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998, 94, 1111-1114.	1.7	7
223	Solid-State Fingerprints of Molecular Threading Detected by Inelastic Neutron Scattering. <i>ChemPhysChem</i> , 2002, 3, 1038-1041.	2.1	7
224	Vibrational Spectroscopic Analysis of Chlorosilanes and Siloxane Oligomers: Implications for the Spectra of Polydimethylsiloxanes. <i>Applied Spectroscopy</i> , 2007, 61, 314-320.	2.2	7
225	The observation of equilibria present in stepwise gas phase hydrogenation reactions. <i>Catalysis Today</i> , 2010, 155, 206-213.	4.4	7
226	Reactions of Iron Atoms with Benzene. <i>Journal of Physical Chemistry A</i> , 2010, 114, 1657-1664.	2.5	7
227	YMn ₂ H _x and RMn ₂ YFe _y H ₆ (R = Y, Er) studied by Raman, infrared and inelastic neutron scattering spectroscopies. <i>Faraday Discussions</i> , 2011, 151, 307.	3.2	7
228	Thermodynamic properties of water confined on the surface of PdO nanoparticles. <i>Journal of Chemical Thermodynamics</i> , 2012, 51, 103-106.	2.0	7
229	Inelastic neutron scattering studies of hydrated CuO, ZnO and CeO ₂ nanoparticles. <i>Chemical Physics</i> , 2013, 427, 66-70.	1.9	7
230	Neutron scattering in catalysis and energy materials. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 17140-17140.	2.8	7
231	Characterisation of the surface of freshly prepared precious metal catalysts. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 17196-17201.	2.8	7
232	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. <i>Catalysis Today</i> , 2017, 283, 110-118.	4.4	7
233	Integrated Theoretical and Empirical Studies for Probing Substrate-€"Framework Interactions in Hierarchical Catalysts. <i>Chemistry - A European Journal</i> , 2019, 25, 9938-9947.	3.3	7
234	Synthesis, Computational Studies, Inelastic Neutron Scattering, Infrared and Raman Spectroscopy of Ruthenocene. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 1142-1146.	2.0	7

#	ARTICLE	IF	CITATIONS
235	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
236	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
237	Differences in the morphology and vibrational dynamics of crystalline, glassy and amorphous silica – commercial implications. <i>Materials Advances</i> , 2020, 1, 749-759.	5.4	7
238	The structure and vibrational spectroscopy of cryolite, Na ₃ AlF ₆ . <i>RSC Advances</i> , 2020, 10, 25856-25863.	3.6	7
239	Neutron spectroscopy studies of methanol to hydrocarbons catalysis over ZSM-5. <i>Catalysis Today</i> , 2021, 368, 20-27.	4.4	7
240	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
241	New Spectroscopic Insight into the Deactivation of a ZSM-5 Methanol-to-Hydrocarbons Catalyst. <i>ChemCatChem</i> , 2021, 13, 2625-2633.	3.7	7
242	Order in nascent polyethylene. <i>Polymer</i> , 1996, 37, 2755-2757.	3.8	6
243	Vibrational spectroscopy on TFXA. <i>Neutron News</i> , 1998, 9, 33-39.	0.2	6
244	Methyl group rotation in trimethylaluminium. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 1833-1845.	1.8	6
245	Conformational and Vibrational Analysis of Methyl Methanesulfonate, CH ₃ SO ₂ OCH ₃ . <i>Journal of Physical Chemistry A</i> , 2009, 113, 8401-8408.	2.5	6
246	Low-frequency Vibrational Dynamics of Amorphous and Crystalline Silica. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2012, 67, 1016-1020.	0.7	6
247	Characterisation of hydrocarbonaceous overlayers important in metal-catalysed selective hydrogenation reactions. <i>Chemical Physics</i> , 2013, 427, 49-53.	1.9	6
248	The adsorbed state of a thiol on palladium nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 17265-17271.	2.8	6
249	The application of inelastic neutron scattering to investigate the interaction of methyl propanoate with silica. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 17210-17216.	2.8	6
250	Complete assignment of the vibrational spectra of borazine: the inorganic benzene. <i>RSC Advances</i> , 2018, 8, 23875-23880.	3.6	6
251	Human bone probed by neutron diffraction: the burning process. <i>RSC Advances</i> , 2019, 9, 36640-36648.	3.6	6
252	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

#	ARTICLE	IF	CITATIONS
253	Local Coordination Environments and Vibrational Dynamics of Protons in Hexagonal and Cubic Sc-Doped BaTiO ₃ Proton-Conducting Oxides. <i>Journal of Physical Chemistry C</i> , 2020, 124, 8643-8651.	3.1	6
254	The Characterisation of Hydrogen on Nickel and Cobalt Catalysts. <i>Topics in Catalysis</i> , 2021, 64, 644-659.	2.8	6
255	Understanding the Surface Characteristics of Biochar and Its Catalytic Activity for the Hydrodeoxygenation of Guaiacol. <i>Catalysts</i> , 2021, 11, 1434.	3.5	6
256	The Cure Cycle of PMR-15 as Studied by in situ Infrared Spectroscopy. <i>High Performance Polymers</i> , 1990, 2, 267-275.	1.8	5
257	IR spectroscopy of hydrotreating catalysts. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1995, 91, 517.	1.7	5
258	An inelastic neutron scattering study and re-assignment of the vibrational spectrum of [Os ₃ (CO) ₉ (1/4 ⁻ CO)(1/4 ⁺ -1,2-C ₂ H ₂)], a model compound for chemisorbed ethyne. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 2589-2592.	2.8	5
259	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
260	Exploiting the quasi-invariance of atomic displacements. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 79, 2017-2019.	3.9	5
261	Characterization of C ₅ Hydrocarbons Relevant to Catalysis. <i>Journal of Physical Chemistry A</i> , 2012, 116, 333-346.	2.5	5
262	Assignment of the solid state spectra of the group VI hexacarbonyls by inelastic neutron scattering spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 24950-24955.	2.8	5
263	A Python Algorithm to Analyze Inelastic Neutron Scattering Spectra Based on the γ -Scale Formalism. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 7671-7680.	5.3	5
264	Investigation of MoO _x /Al ₂ O ₃ under Cyclic Operation for Oxidative and Non-Oxidative Dehydrogenation of Propane. <i>Catalysts</i> , 2020, 10, 1370.	3.5	5
265	Investigation of Commercial Graphenes. <i>ChemistryOpen</i> , 2020, 9, 1060-1064.	1.9	5
266	Looking for Minor Phenolic Compounds in Extra Virgin Olive Oils Using Neutron and Raman Spectroscopies. <i>Antioxidants</i> , 2021, 10, 643.	5.1	5
267	The effect of cation substitution on the local coordination of protons in Ba ₂ In _{1.85} Mo _{0.15} O ₆ H ₂ (M ^A = ^A In.) <i>Tj ETQq_{1,1}0.7843₁₄ rgBT</i>	2.7	5
268	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
269	New insight into the structure, internal rotation barrier and vibrational analysis of 2-fluorostyrene. <i>Chemical Physics</i> , 2009, 361, 94-105.	1.9	4
270	Vibrational Spectra of Benzene Chromium Tricarbonyl and Its Mesityl Analogue: A Study by Neutron Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2010, 114, 12605-12612.	2.5	4

#	ARTICLE	IF	CITATIONS
271	Determination of the magnetic contribution to the heat capacity of cobalt oxide nanoparticles and the thermodynamic properties of the hydration layers. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 205303.	1.8	4
272	Stabilization of 3d Transition Metal Hydrido Complexes in SrH ₂ Mg ₂ [Co(I)H ₅], BaH ₂ Mg ₅ [Co(II)H ₄], and RbH ₂ Mg ₅ [Co(II)H ₄ Ni(O)H ₄] via Easily Polarizable Hydride Ligands. <i>Inorganic Chemistry</i> , 2016, 55, 3576-3582.	4.0	4
273	Comprehensive Vibrational Spectroscopic Characterization of Nylon-6 Precursors for Precise Tracking of the Beckmann Rearrangement. <i>ChemPhysChem</i> , 2018, 19, 3196-3203.	2.1	4
274	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
275	Structure and Dynamics of the Superprotonic Conductor Caesium Hydrogen Sulfate, CsHSO ₄ . <i>Molecules</i> , 2020, 25, 1271.	3.8	4
276	Spectroscopic Signatures of Hydrogen-Bonding Motifs in Protonic Ionic Liquid Systems: Insights from Diethylammonium Nitrate in the Solid State. <i>Journal of Physical Chemistry C</i> , 2021, 125, 24463-24476.	3.1	4
277	Fourier transform raman spectroscopy using a bench-top fourier transform infrared spectrometer. <i>Mikrochimica Acta</i> , 1988, 95, 231-234.	5.0	3
278	Vibrational spectroscopy of a compound with a CS ₇ ring. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 703-708.	2.5	3
279	Periodic-DFT of a Disordered System: Mg ₂ (FeH ₆) _{0.5} (CoH ₅) _{0.5} . <i>Journal of Physical Chemistry C</i> , 2012, 116, 25206-25212.	3.1	3
280	Direct Spectroscopic Evidence of the Mechanism behind the Phase Transition of [2,2]-Paracyclophane. <i>Chemistry - A European Journal</i> , 2015, 21, 4556-4560.	3.3	3
281	Fractal dimension as a scaling law for nuclear quantum effects: a neutron Compton scattering study on carbon allotropes. <i>Journal of Physics: Conference Series</i> , 2018, 1055, 012007.	0.4	3
282	Characterisation of fac-tris [2-phenylpyridinato-C ² , N]iridium(III) by inelastic neutron scattering spectroscopy and periodic density functional theory. <i>Journal of Physics Communications</i> , 2019, 3, 065010.	1.2	3
283	Structure and vibrational spectroscopy of lithium and potassium methanesulfonates. <i>Royal Society Open Science</i> , 2020, 7, 200776.	2.4	3
284	Computational and Spectroscopic Studies of Carbon Disulfide. <i>Molecules</i> , 2020, 25, 1901.	3.8	3
285	Investigations of Hydrocarbon Species on Solid Catalysts by Inelastic Neutron Scattering. <i>Topics in Catalysis</i> , 2021, 64, 593-602.	2.8	3
286	Applications of Neutron Scattering in Technical Catalysis: Characterisation of Hydrogenous Species on/in Unsupported and Supported Palladium. <i>Topics in Catalysis</i> , 2021, 64, 603-613.	2.8	3
287	Net Zero and Catalysis: How Neutrons Can Help. <i>Physchem</i> , 2021, 1, 95-120.	1.1	3
288	How Many Molecules Can Fit in a Zeolite Pore? Implications for the Hydrocarbon Pool Mechanism of the Methanol-to-Hydrocarbons Process. <i>Catalysts</i> , 2021, 11, 1204.	3.5	3

#	ARTICLE	IF	CITATIONS
289	Vibrational spectroscopy to study ancient Roman funerary practices at the "Hypogeum of the Garlands" (Italy). <i>Scientific Reports</i> , 2022, 12, 3707.	3.3	3
290	Inelastic Neutron Scattering Studies of the Proton Dynamics in Bi-Doped Manganese Oxides. <i>Journal of the Electrochemical Society</i> , 2000, 147, 4184.	2.9	2
291	Experimental test of the validity of the use of the n-alkanes as model compounds for polyethylene. <i>Chemical Communications</i> , 2000, , 165-166.	4.1	2
292	The methyl rotational potentials of Ga(CH ₃) ₃ derived by neutron spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 10145-10157.	1.8	2
293	The reaction of formic acid with Raney TM copper. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016, 472, 20160126.	2.1	2
294	Methyl tunnelling of adsorbed methoxy on alumina catalysts. <i>Chemical Communications</i> , 2016, 52, 366-369.	4.1	2
295	Vibrational spectra of buta-1,3-diene iron tricarbonyl: comparison to surface species. <i>Journal of Lithic Studies</i> , 2017, 3, 119-127.	0.5	2
296	Spectroscopic characterisation of centropolyindanes. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 4568-4577.	2.8	2
297	The Interaction of Hydrogen with Iron Benzene-1,3,5-Tricarboxylate (Fe-BTC). <i>Catalysts</i> , 2020, 10, 1255.	3.5	2
298	Octane isomer dynamics in H-ZSM-5 as a function of Si/Al ratio: a quasi-elastic neutron scattering study. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20200063.	3.4	2
299	Structure and spectroscopy of methionyl-methionine for aquaculture. <i>Scientific Reports</i> , 2021, 11, 458.	3.3	2
300	Vibrational spectroscopy of the oxidation of polyethylene. I. Fourier self-deconvolution of the carbonyl absorption. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1989, 27, 1691-1698.	2.1	1
301	The determination of the geometry of surface species by vibrational spectroscopy: application to ethylidyne. <i>Surface Science</i> , 1996, 368, 275-278.	1.9	1
302	An inelastic neutron scattering study of the interaction of thiophene with a hydrodesulfurisation catalyst. <i>Studies in Surface Science and Catalysis</i> , 2000, , 2789-2794.	1.5	1
303	Spectroscopic investigation of nitric acid monohydrate. <i>Molecular Physics</i> , 2011, 109, 2083-2093.	1.7	1
304	Catalysts, neutrons and calculations. <i>Neutron News</i> , 2012, 23, 10-14.	0.2	1
305	The distribution of isotopomers in crystals. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 140, 462-464.	3.9	1
306	Comment on "Assessment of new DFT methods for predicting vibrational spectra and structure of cisplatin: Which density functional should we choose for studying platinum(II) complexes?" [Spectrochim. Acta A125 (2014) 431-439]. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 136, 347.	3.9	1

#	ARTICLE	IF	CITATIONS
307	Frontispiece: Metastable Nitric Acid Trihydrate in Ice Clouds. <i>Angewandte Chemie - International Edition</i> , 2016, 55, .	13.8	1
308	Structural and spectroscopic characterisation of C4 oxygenates relevant to structure/activity relationships of the hydrogenation of 1,1,1,2-unsaturated carbonyls. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 153, 289-297.	3.9	1
309	Raman and inelastic neutron scattering spectra of (NH ₄) ₂ SO ₃ , an intermediate for solar hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 30216-30222.	7.1	1
310	Observation of the stretch mode in H ₂ and D ₂ by inelastic neutron scattering spectroscopy. <i>Journal of Physics: Conference Series</i> , 2018, 1055, 012001.	0.4	1
311	Mutual interactions in a ternary protein/bioprotectant/water system. <i>Vibrational Spectroscopy</i> , 2018, 99, 190-195.	2.2	1
312	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
313	Assignment of the Vibrational Spectra of Diiron Nonacarbonyl, Fe ₂ (CO) ₉ . <i>Physchem</i> , 2022, 2, 108-115.	1.1	1
314	Vibrational Spectroscopy of Hexahalo Complexes. <i>Inorganic Chemistry</i> , 2022, , .	4.0	1
315	Inelastic Neutron Scattering and Raman Spectroscopies and Periodic DFT Studies of Rb ₂ PtH ₆ and Rb ₂ PtD ₆ . <i>ChemInform</i> , 2003, 34, no.	0.0	0
316	Inelastic Neutron Scattering, Instrumentation*. , 2010, , 1035-1044.		0
317	Metastabiles Salpetersäuretrihydrat in Eiswolken. <i>Angewandte Chemie</i> , 2016, 128, 3334-3338.	2.0	0
318	Frontispiz: Metastabiles Salpetersäuretrihydrat in Eiswolken. <i>Angewandte Chemie</i> , 2016, 128, .	2.0	0
319	Assignment of the vibrational spectra of the parent polysilsesquioxane (POSS): Octahydridosilasequioxane, H ₈ Si ₈ O ₁₂ . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 171, 222-228.	3.9	0
320	Towards Neutron Scattering Identification of Olive Oil's Antioxidant Properties. <i>Neutron News</i> , 0, , 1-2.	0.2	0
321	Applications of Neutron Scattering in the Chemical Industry: Proton Dynamics of Highly Dispersed Materials, Characterization of Fuel Cell Catalysts, and Catalysts from Large-Scale Chemical Processes. <i>Neutron Scattering Applications and Techniques</i> , 2007, , 391-416.	0.2	0
322	Studies of Biomacromolecules with Neutron Vibrational Spectroscopy. , 2011, , 86-98.		0
323	FT-Raman, FT-IR and Inelastic Neutron Scattering Studies of Maleimides. , 1997, , 221-222.		0
324	Inelastic Neutron Scattering, Applications*. , 1999, , 1024-1034.		0

#	ARTICLE	IF	CITATIONS
325	Vibrational Spectroscopy with Neutrons. , 2019, , 1-8.		0
326	Vibrational properties of SrVO_2H with large spin-phonon coupling. Physical Review Materials, 2022, 6, .	2.4	0