## Wilfred T Tysoe

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

 126
 2,356
 28
 41

 papers
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 g-index

 132
 2,563
 4.6
 5.26

 ext. papers
 ext. citations
 avg, IF
 L-index

| #   | Paper  | IF      | Citations |
|-----|--|---------|-----------|
| 126 | Reflection absorption infrared spectroscopy of the surface chemistry of furfural on Pd(111). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2022</b> , 40, 013203  | 2.9     | O         |
| 125 | Influence of the Nature and Orientation of the Terminal Group on the Tribochemical Reaction Rates of Carboxylic Acid Monolayers on Copper. <i>Tribology Letters</i> , <b>2022</b> , 70, 1  | 2.8     | O         |
| 124 | Adsorption Structure and Reactivity of a Putative Asymmetric Molecular Conductor; 4-Isocyanophenyl Disulfide on Au(111). <i>Journal of Physical Chemistry C</i> , <b>2022</b> , 126, 6601-6611   | 3.8     | O         |
| 123 | Prandtllomlinson-Type Models for Coupled Molecular Sliding Friction: Chain-Length Dependence of Friction of Self-assembled Monolayers. <i>Tribology Letters</i> , <b>2022</b> , 70, 1  | 2.8     |           |
| 122 | Prandtlllomlinson-Type Models for Molecular Sliding Friction. <i>Tribology Letters</i> , <b>2021</b> , 69, 1   | 2.8     | 1         |
| 121 | Binding of Oxygen on Single-Atom Sites on Au/Pd(100) Alloys with High Gold Coverages. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 9715-9729  | 3.8     | 1         |
| 120 | Surface Chemistry at the Solid-Solid Interface; Selectivity and Activity in Mechanochemical Reactions on Surfaces. <i>Chemistry Methods</i> , <b>2021</b> , 1, 340-349   |         | 1         |
| 119 | Influence of the terminal group on the thermal decomposition reactions of carboxylic acids on copper: nature of the carbonaceous film. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 17663-17671  | 3.6     | 3         |
| 118 | Surface chemistry at the solid-solid interface: mechanically induced reaction pathways of C carboxylic acid monolayers on copper. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 17803-17812   | 3.6     | 2         |
| 117 | Insights into the Mechanism of the Mechanochemical Formation of Metastable Phases. <i>ACS Applied Materials &amp; ACS Applied &amp; ACS Appl</i> | 9.5     | 5         |
| 116 | Inducing High-Energy-Barrier Tribochemical Reaction Pathways; Acetic Acid Decomposition on Copper. <i>Tribology Letters</i> , <b>2021</b> , 69, 1  | 2.8     | 7         |
| 115 | Structure and reaction pathways of octanoic acid on copper. Surface Science, 2021, 711, 121875   | 1.8     | 5         |
| 114 | Adsorption and reaction pathways of 7-octenoic acid on copper. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 5834-5844  | 3.6     | 6         |
| 113 | Infrared spectroscopic measurements of the structure of organic thin films; furfural on Pd(111) and Au(111) surfaces. <i>CrystEngComm</i> , <b>2021</b> , 23, 4534-4548  | 3.3     | 2         |
| 112 | Mechanism of the Accelerated Water Formation Reaction under Interfacial Confinement. <i>ACS Catalysis</i> , <b>2020</b> , 10, 6119-6128  | 13.1    | 9         |
| 111 | Measuring and modelling mechanochemical reaction kinetics. <i>Chemical Communications</i> , <b>2020</b> , 56, 7730   | )-₹.833 | 15        |
| 110 | The reactivity, selectivity and structure of 2-butanol on clean and oxygen-covered Au/Pd(100) alloys. <i>Surface Science</i> , <b>2020</b> , 694, 121556   | 1.8     |           |

## (2017-2020)

| 109 | Adsorption and Reaction of Trimethyl and Triethyl Phosphite on Fe3O4 by Density Functional Theory. <i>Tribology Letters</i> , <b>2020</b> , 68, 1   | 2.8                 |                   |
|-----|---|---------------------|-------------------|
| 108 | Surface structure of 1,4-benzenedithiol on Au(111). Surface Science, 2020, 702, 121717  | 1.8                 | 4                 |
| 107 | Chemical Self-Assembly Strategies for Designing Molecular Electronic Circuits: Demonstration of Concept. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 10398-10405                  | 3.8                 | 2                 |
| 106 | Tribochemical Mechanisms of Trimethyl and Triethyl Phosphite on Oxidized Iron in Ultrahigh Vacuum. <i>Tribology Letters</i> , <b>2019</b> , 67, 1   | 2.8                 | 5                 |
| 105 | Chemical self-assembly strategies for designing molecular electronic circuits. <i>Chemical Communications</i> , <b>2019</b> , 55, 13872-13875   | 5.8                 | 5                 |
| 104 | The structure of alanine anionic-zwitterionic dimers on Pd(111); formation of salt bridges. <i>Surface Science</i> , <b>2019</b> , 679, 79-85   | 1.8                 | 1                 |
| 103 | Combining IR Spectroscopy and Monte Carlo Simulations to Identify CO Adsorption Sites on Bimetallic Alloys. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 8406-8420                 | 3.8                 | 8                 |
| 102 | Adsorption and Structure of Chiral Epoxides on Pd(111): Propylene Oxide and Glycidol. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 1215-1222                                       | 3.8                 | 1                 |
| 101 | Effect of Coverage on Catalytic Selectivity and Activity on Metallic and Alloy Catalysts; Vinyl Acetate Monomer Synthesis. <i>Topics in Catalysis</i> , <b>2018</b> , 61, 722-735                 | 2.3                 | 3                 |
| 100 | Characterization of the Tribological Behavior of the Textured Steel Surfaces Fabricated by Photolithographic Etching. <i>Tribology Letters</i> , <b>2018</b> , 66, 1                              | 2.8                 | 17                |
| 99  | Development of a ReaxFF Force Field for Cu/S/C/H and Reactive MD Simulations of Methyl Thiolate Decomposition on Cu (100). <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 888-896    | 3.4                 | 14                |
| 98  | In-Situ Measurement of Tribochemical Processes in Ultrahigh Vacuum. <i>Microtechnology and MEMS</i> , <b>2018</b> , 129-158   | 0.6                 |                   |
| 97  | Vinyl Acetate Formation on Au/Pd(100) Alloy Surfaces. <i>Catalysis Letters</i> , <b>2018</b> , 148, 79-89   | 2.8                 | 1                 |
| 96  | Spontaneous self-assembly of conductive molecular linkages between gold nanoelectrodes from aryl diisocyanides. <i>Applied Physics A: Materials Science and Processing</i> , <b>2018</b> , 124, 1 | 2.6                 | 3                 |
| 95  | Adsorption, Assembly, and Oligomerization of Aspartic Acid on Pd(111). <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 13239-13248  | 3.8                 | 3                 |
| 94  | Kinetics and Mechanism of Vinyl Acetate Monomer Synthesis on Pd(100) Model Catalysts. <i>Catalysis Letters</i> , <b>2017</b> , 147, 1941-1954   | 2.8                 | 2                 |
| 93  | Modeling Mechanochemical Reaction Mechanisms. ACS Applied Materials & amp; Interfaces, 2017, 9, 26,   | 53g. <del>3</del> 6 | 53 <del>8</del> 5 |
| 92  | On Stress-Induced Tribochemical Reaction Rates. <i>Tribology Letters</i> , <b>2017</b> , 65, 1  | 2.8                 | 36                |

| 91 | Enhanced hydrogenation activity and diastereomeric interactions of methyl pyruvate co-adsorbed with R-1-(1-naphthyl)ethylamine on Pd(111). <i>Nature Communications</i> , <b>2016</b> , 7, 12380                   | 17.4          | 27 |
|----|--|---------------|----|
| 90 | Surface chemistry and structures of 1,4-phenylene diisocyanide on gold films from solution. <i>Surface Science</i> , <b>2016</b> , 649, 56-59  | 1.8           | 7  |
| 89 | Identification of the Shear Plane During Sliding of Solid Boundary Films: Potassium Chloride Films on Iron. <i>Tribology Letters</i> , <b>2016</b> , 62, 1   | 2.8           | 1  |
| 88 | In Situ Measurements of Boundary Film Formation Pathways and Kinetics: Dimethyl and Diethyl Disulfide on Copper. <i>Tribology Letters</i> , <b>2016</b> , 62, 1  | 2.8           | 20 |
| 87 | Kinetics of low-temperature CO oxidation on Au(111). Surface Science, 2016, 648, 236-241   | 1.8           | 4  |
| 86 | The adsorption of ethylene on Au/Pd(100) alloy surfaces. Surface Science, 2016, 646, 65-71   | 1.8           | 5  |
| 85 | Adsorption and Oligomerization of 1,3-Phenylene Diisocyanide on Au(111). <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 9270-9275   | 3.8           | 5  |
| 84 | Local and Extended Structures of d-(I) Tartaric Acid on Pd(111). <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 2309-2319   | 3.8           | 6  |
| 83 | Pressure dependence of the interfacial structure of potassium chloride films on iron. <i>Thin Solid Films</i> , <b>2015</b> , 593, 150-157   | 2.2           | 3  |
| 82 | Self-Assembled Oligomeric Structures from 1,4-Benzenedithiol on Au(111) and the Formation of Conductive Linkers between Gold Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 23042-2305 | 5 <b>3</b> .8 | 17 |
| 81 | Influence of Potential Shape on Constant-Force Atomic-Scale Sliding Friction Models. <i>Tribology Letters</i> , <b>2015</b> , 60, 1  | 2.8           | 12 |
| 80 | Structural Changes in Self-Catalyzed Adsorption of Carbon Monoxide on 1,4-Phenylene Diisocyanide Modified Au(111). <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 18317-18325                         | 3.8           | 9  |
| 79 | Shear-Induced Mechanochemistry: Pushing Molecules Around. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 7115-7123  | 3.8           | 48 |
| 78 | Chemisorptive enantioselectivity of chiral epoxides on tartaric-acid modified Pd(111): three-point bonding. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 5450-8                                  | 3.6           | 9  |
| 77 | On the Commonality Between Theoretical Models for Fluid and Solid Friction, Wear and Tribochemistry. <i>Tribology Letters</i> , <b>2015</b> , 59, 1  | 2.8           | 79 |
| 76 | Formation of Induced-Fit Chiral Templates by Amino Acid-Functionalized Pd(111) Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 3556-3563   | 3.8           | 11 |
| 75 | Adsorption and reaction pathways of a chiral probe molecule, S-glycidol on a Pd(111) surface. <i>Catalysis Science and Technology</i> , <b>2015</b> , 5, 738-742   | 5.5           | 6  |
| 74 | Surface Chemistry for Enantioselective Catalysis. <i>Catalysis Letters</i> , <b>2015</b> , 145, 220-232  | 2.8           | 71 |

| 73 | Disentangling ensemble, electronic and coverage effects on alloy catalysts: Vinyl acetate synthesis on Au/Pd(111). <i>Journal of Catalysis</i> , <b>2014</b> , 312, 37-45            | 7.3           | 24 |  |
|----|--|---------------|----|--|
| 72 | Formation of Chiral Self-Assembled Structures of Amino Acids on Transition-Metal Surfaces: Alanine on Pd(111). <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 6856-6865 | 3.8           | 25 |  |
| 71 | Shear and thermal effects in boundary film formation during sliding. RSC Advances, 2014, 4, 24059-2400   | 6 <b>6</b> .7 | 16 |  |
| 70 | Understanding and Controlling the 1,4-Phenylene Diisocyanide <b>L</b> old Oligomer Formation Pathways. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 20899-20907       | 3.8           | 17 |  |
| 69 | Determination of Adsorbate Structures from 1,4-Phenylene Diisocyanide on Gold. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 3577-81                               | 6.4           | 17 |  |
| 68 | Temperature Dependences in the Tomlinson/Prandtl Model for Atomic Sliding Friction. <i>Tribology Letters</i> , <b>2014</b> , 55, 363-369   | 2.8           | 8  |  |
| 67 | Structure and decomposition pathways of D-(Ill tartaric acid on Pd(111). Surface Science, 2014, 629, 132-  | 13.8          | 10 |  |
| 66 | Reactivity and Selectivity in the Au/Pd(111) Alloy-Catalyzed Vinyl Acetate Synthesis. <i>Catalysis Letters</i> , <b>2013</b> , 143, 756-762  | 2.8           | 9  |  |
| 65 | Mechanistic Insights in the Catalytic Synthesis of Vinyl Acetate on Palladium and Gold/Palladium Alloy Surfaces. <i>Topics in Catalysis</i> , <b>2013</b> , 56, 1314-1332            | 2.3           | 23 |  |
| 64 | Tribological Properties of 1-Alkenes on Copper Foils: Effect of Low-Coordination Surface Sites. <i>Tribology Letters</i> , <b>2013</b> , 51, 357-363                                 | 2.8           | 3  |  |
| 63 | Pressure Dependence of the Shear Strengths of the Tungsten Carbide Potassium Chloride Interface. <i>Tribology Letters</i> , <b>2013</b> , 50, 105-113                                | 2.8           | 2  |  |
| 62 | The desorption and reaction of 1-alkenes and 1-alkynes on Cu(111) and copper foils. <i>Surface Science</i> , <b>2013</b> , 616, 143-148  | 1.8           | 7  |  |
| 61 | Linking gold nanoparticles with conductive 1,4-phenylene diisocyanide-gold oligomers. <i>Chemical Communications</i> , <b>2013</b> , 49, 1422-4                                      | 5.8           | 24 |  |
| 60 | Relating Molecular Structure to Tribological Chemistry: Borate Esters on Copper. <i>Tribology Letters</i> , <b>2013</b> , 49, 21-29  | 2.8           | 12 |  |
| 59 | The Kinetics of Shear-Induced Boundary Film Formation from Dimethyl Disulfide on Copper. <i>Tribology Letters</i> , <b>2013</b> , 49, 39-46  | 2.8           | 16 |  |
| 58 | Identifying Molecular Species on Surfaces by Scanning Tunneling Microscopy: Methyl Pyruvate on Pd(111). <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 4505-4514        | 3.8           | 12 |  |
| 57 | Shear-induced boundary film formation from dialkyl sulfides on copper. Wear, 2012, 274-275, 183-187  | 3.5           | 17 |  |
| 56 | On the film thickness dependence of shear strengths in sliding, boundary-layer friction. <i>Wear</i> , <b>2012</b> , 274-275, 281-285  | 3.5           | 4  |  |

| 55 | Structure of the Au/Pd(100) Alloy Surface. Journal of Physical Chemistry C, 2012, 116, 4692-4697  | 3.8  | 7  |
|----|---|------|----|
| 54 | Surface chemistry of isopropoxy tetramethyl dioxaborolane on Cu(111). <i>Langmuir</i> , <b>2012</b> , 28, 6322-7  | 4    | 7  |
| 53 | The adsorption and reaction of vinyl acetate on Au/Pd(100) alloy surfaces. <i>Surface Science</i> , <b>2012</b> , 606, 1113-1119  | 1.8  | 6  |
| 52 | The adsorption of acetic acid on clean and oxygen-covered Au/Pd(100) alloy surfaces. <i>Surface Science</i> , <b>2012</b> , 606, 1934-1941  | 1.8  | 16 |
| 51 | An Infrared Spectroscopic and Temperature-Programmed Desorption Study of 1,1-Difluoroethylene on Clean and Hydrogen-Covered Pd(111). <i>Adsorption Science and Technology</i> , <b>2011</b> , 29, 595-602 | 3.6  |    |
| 50 | Stabilization of Carboxylate Surface Species on Pd(111). <i>Adsorption Science and Technology</i> , <b>2011</b> , 29, 603-611   | 3.6  | 6  |
| 49 | Reaction Between Ethylene and Acetate Species on Clean and Oxygen-Covered Pd(100): Implications for the Vinyl Acetate Monomer Formation Pathway. <i>Catalysis Letters</i> , <b>2011</b> , 141, 266-270    | 2.8  | 12 |
| 48 | Creation of Low-Coordination Gold Sites on Au(111) Surface by 1,4-phenylene Diisocyanide Adsorption. <i>Topics in Catalysis</i> , <b>2011</b> , 54, 20-25   | 2.3  | 35 |
| 47 | Shear-Induced Surface-to-Bulk Transport at Room Temperature in a Sliding Metal Metal Interface. <i>Tribology Letters</i> , <b>2011</b> , 41, 257-261  | 2.8  | 29 |
| 46 | On the Pressure Dependence of Shear Strengths in Sliding, Boundary-Layer Friction. <i>Tribology Letters</i> , <b>2011</b> , 44, 67-73   | 2.8  | 13 |
| 45 | Structure and Distribution of S-E(1-Naphthyl)-ethylamine on Pd(111). <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 16488-16494  | 3.8  | 25 |
| 44 | Low-temperature, shear-induced tribofilm formation from dimethyl disulfide on copper. <i>ACS Applied Materials &amp; Discourse (Materials &amp; Discourse)</i> , 1, 2, 795-800                            | 9.5  | 35 |
| 43 | Structure of Methyl Pyruvate and E(1-Naphthyl)ethylamine on Pd(111). <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 8790-8797  | 3.8  | 22 |
| 42 | The surface chemistry of diethyl disulfide on copper. <i>Surface Science</i> , <b>2011</b> , 605, 606-611   | 1.8  | 8  |
| 41 | Carbon Monoxide Oxidation over Au/Pd(100) Model Alloy Catalysts <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 16909-16916   | 3.8  | 32 |
| 40 | Coverage effects on the palladium-catalyzed synthesis of vinyl acetate: comparison between theory and experiment. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 2202-7             | 16.4 | 50 |
| 39 | Identification of Adsorption Ensembles on Bimetallic Alloys. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 1875-1880  | 3.8  | 15 |
| 38 | The surface chemistry of dimethyl disulfide on copper. <i>Langmuir</i> , <b>2010</b> , 26, 16375-80   | 4    | 29 |

## (2008-2010)

| 37 | One-dimensional supramolecular surface structures: 1,4-diisocyanobenzene on Au(111) surfaces. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 11624-9                                       | 3.6  | 44 |
|----|--|------|----|
| 36 | Kinetic Parameters for the Elementary Steps in the Palladium-Catalyzed Synthesis of Vinyl Acetate. <i>Catalysis Letters</i> , <b>2010</b> , 138, 135-142   | 2.8  | 13 |
| 35 | Monte Carlo Simulations for Tomlinson Sliding Models for Non-Sinusoidal Periodic Potentials. <i>Tribology Letters</i> , <b>2010</b> , 39, 177-180  | 2.8  | 18 |
| 34 | Adsorption of carbon monoxide Au/Pd(100) alloys in ultrahigh vacuum: Identification of adsorption sites. <i>Surface Science</i> , <b>2010</b> , 604, 136-143   | 1.8  | 25 |
| 33 | The adsorption and reaction of 2-butanol on clean and oxygen-covered Pd(100). <i>Surface Science</i> , <b>2010</b> , 604, 1377-1387  | 1.8  | 9  |
| 32 | Catalytic Chemistry of Hydrocarbon Conversion Reactions on Metallic Single Crystals <b>2010</b> , 1-28   |      |    |
| 31 | Structure and reaction pathways of methyl lactate on Pd(1 1 1). Surface Science, 2009, 603, 2714-2720  | 1.8  | 6  |
| 30 | Enantioselective Chemisorption on Model Chirally Modified Surfaces: 2-Butanol on £(1-Naphthyl)ethylamine/Pd(111). <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 13877-13885                  | 3.8  | 31 |
| 29 | Structure and Reaction Pathways of Methyl Pyruvate on Pd(111). <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 15298-15306   | 3.8  | 12 |
| 28 | Ethene Adsorption and Decomposition on the Cu(410) Surface. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 20881-20889  | 3.8  | 18 |
| 27 | Structure and Decomposition Pathways of Vinyl Acetate on Clean and Oxygen-Covered Pd(100).<br>Journal of Physical Chemistry C, <b>2009</b> , 113, 971-978  | 3.8  | 16 |
| 26 | A new method for performing polarization modulation infrared reflection-adsorption spectroscopy of surfaces. <i>Applied Spectroscopy</i> , <b>2009</b> , 63, 369-72  | 3.1  | 12 |
| 25 | Kinetic Monte Carlo theory of sliding friction. <i>Physical Review B</i> , <b>2009</b> , 80,   | 3.3  | 23 |
| 24 | Ethylene decomposition at undercoordinated sites on Cu(410). <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 12552-3  | 16.4 | 33 |
| 23 | Enantioselective Chemisorption and Reactions on Model Chirally Modified Surfaces: 2-Butanol on l-Proline Templated Pd(111) Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 6145-6150 | 3.8  | 24 |
| 22 | Monte Carlo and density functional theory analysis of the distribution of gold and palladium atoms on Au <b>P</b> d(111) alloys. <i>Physical Review B</i> , <b>2008</b> , 77,                              | 3.3  | 50 |
| 21 | Surface and Tribological Chemistry of Water and Carbon Dioxide on Copper Surfaces. <i>Tribology Letters</i> , <b>2008</b> , 31, 167-176  | 2.8  | 9  |
| 20 | Probing reaction pathways on model catalyst surfaces: Vinyl acetate synthesis and olefin metathesis. <i>Journal of Molecular Catalysis A</i> , <b>2008</b> , 281, 14-23                                    |      | 10 |

| 19 | Surface segregation of gold for Au/Pd(111) alloys measured by low-energy electron diffraction and low-energy ion scattering. <i>Surface Science</i> , <b>2008</b> , 602, 1084-1091   | 1.8  | 45  |
|----|--|------|-----|
| 18 | The structure and reactivity of 2-butanol on Pd(111). Surface Science, 2008, 602, 2264-2270  | 1.8  | 16  |
| 17 | Enantioselective chemisorption of propylene oxide on a 2-butanol modified Pd(111) surface: the role of hydrogen-bonding interactions. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 15240-9                 | 16.4 | 32  |
| 16 | Formation and characterization of Au/Pd surface alloys on Pd(1 1 1). Surface Science, 2007, 601, 1898-19   | 908  | 83  |
| 15 | Formation and decomposition of C3 metallacycles from ethylene and methylene on MoAl alloy thin films. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 7091-6  | 16.4 | 6   |
| 14 | Structure and decomposition pathways of vinyl acetate on Pd(111). Surface Science, 2005, 598, 263-275  | 1.8  | 32  |
| 13 | Elucidation of the reaction mechanism for the palladium-catalyzed synthesis of vinyl acetate. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 4572-4  | 16.4 | 57  |
| 12 | Elucidation of the Reaction Mechanism for the Palladium-Catalyzed Synthesis of Vinyl Acetate. <i>Angewandte Chemie</i> , <b>2005</b> , 117, 4648-4650  | 3.6  | 2   |
| 11 | Hydrocarbon conversion on palladium catalysts. <i>Journal of Molecular Catalysis A</i> , <b>2005</b> , 228, 35-45  |      | 36  |
| 10 | Probing enantioselective chemisorption in ultrahigh vacuum. <i>Journal of Molecular Catalysis A</i> , <b>2004</b> , 216, 215-221   |      | 24  |
| 9  | Reaction of tributyl phosphite with oxidized iron: surface and tribological chemistry. <i>Langmuir</i> , <b>2004</b> , 20, 7557-68   | 4    | 43  |
| 8  | A Comparative Investigation of Aryl Isocyanides Chemisorbed to Palladium and Gold: An ATR-IR Spectroscopic Study. <i>Langmuir</i> , <b>2004</b> , 20, 1732-1738  | 4    | 57  |
| 7  | Vinyl acetate formation by the reaction of ethylene with acetate species on oxygen-covered Pd(111). <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 15384-5   | 16.4 | 61  |
| 6  | Enantioselective chemisorption on a chirally modified surface in ultrahigh vacuum: adsorption of propylene oxide on 2-butoxide-covered palladium(111). <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 8984-9 | 16.4 | 100 |
| 5  | Surface Chemistry and Extreme-Pressure Lubricant Properties of Dimethyl Disulfide. <i>Journal of Physical Chemistry B</i> , <b>1998</b> , 102, 1703-1709   | 3.4  | 55  |
| 4  | Palladium-Catalyzed Acetylene Cyclotrimerization: From Ultrahigh Vacuum to High-Pressure Catalysis. <i>Israel Journal of Chemistry</i> , <b>1998</b> , 38, 313-320   | 3.4  | 12  |
| 3  | Determination of the bonding and orientation of ethylene on palladium(111) by near-edge x-ray absorption fine structure and photoelectron spectroscopy. <i>The Journal of Physical Chemistry</i> , <b>1990</b> , 94, 4236-4239     |      | 60  |
| 2  | Discovery of a tilted form of benzene chemisorbed on Pd(111): As NEXAFS and photoemission investigation. <i>Surface Science</i> , <b>1990</b> , 232, 259-265   | 1.8  | 81  |

Low temperature catalytic chemistry of the Pd(111) surface: benzene and ethylene from acetylene.

Journal of the Chemical Society Chemical Communications, 1983, 623

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