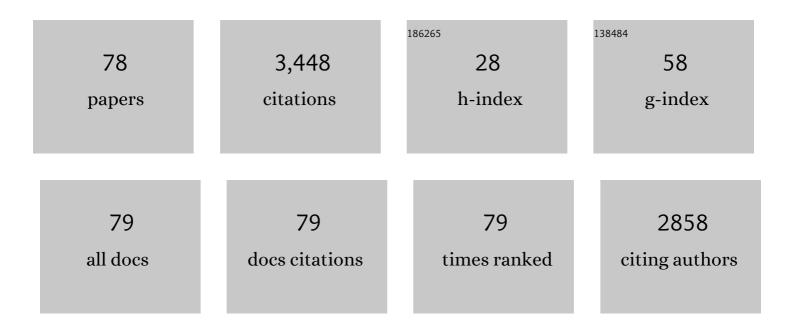
K W Hipps

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5240922/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Scanning Tunneling Microscopy of Metal Phthalocyanines:Â d7and d9Cases. Journal of the American Chemical Society, 1996, 118, 7197-7202.	13.7	359
2	Scanning Tunneling Microscopy of Metal Phthalocyanines:Â d6and d8Cases. Journal of Physical Chemistry B, 1997, 101, 5391-5396.	2.6	268
3	Scanning Tunneling Microscopy, Orbital-Mediated Tunneling Spectroscopy, and Ultraviolet Photoelectron Spectroscopy of Metal(II) Tetraphenylporphyrins Deposited from Vapor. Journal of the American Chemical Society, 2001, 123, 4073-4080.	13.7	246
4	Physical Properties and Metal Ion Specific Scanning Tunneling Microscopy Images of Metal(II) Tetraphenylporphyrins Deposited from Vapor onto Gold (111). Journal of Physical Chemistry B, 2000, 104, 11899-11905.	2.6	198
5	MOLECULAR ELECTRONICS: It's All About Contacts. Science, 2001, 294, 536-537.	12.6	191
6	Metal d-Orbital Occupation-Dependent Images in the Scanning Tunneling Microscopy of Metal Phthalocyanines. The Journal of Physical Chemistry, 1996, 100, 11207-11210.	2.9	183
7	A Self-Organized 2-Dimensional Bifunctional Structure Formed by Supramolecular Design. Journal of the American Chemical Society, 2002, 124, 2126-2127.	13.7	172
8	Scanning Tunneling Microscopy, Orbital-Mediated Tunneling Spectroscopy, and Ultraviolet Photoelectron Spectroscopy of Nickel(II) Octaethylporphyrin Deposited from Vapor. Journal of Physical Chemistry B, 2002, 106, 996-1003.	2.6	133
9	A Scanning Tunneling Microscopy and Spectroscopy Study of Vanadyl Phthalocyanine on Au(111):Â the Effect of Oxygen Binding and Orbital Mediated Tunneling on the Apparent Corrugation. Journal of Physical Chemistry B, 2000, 104, 5993-6000.	2.6	131
10	A Self-Organized Two-Dimensional Bimolecular Structure. Journal of Physical Chemistry B, 2003, 107, 2903-2909.	2.6	124
11	Kinetic and thermodynamic processes of organic species at the solution–solid interface: the view through an STM. Chemical Communications, 2015, 51, 4737-4749.	4.1	93
12	Single Molecule Imaging of Oxygenation of Cobalt Octaethylporphyrin at the Solution/Solid Interface: Thermodynamics from Microscopy. Journal of the American Chemical Society, 2012, 134, 14897-14904.	13.7	83
13	Orbital Mediated Tunneling in Vanadyl Phthalocyanine Observed in both Tunnel Diode and STM Environments. Journal of Physical Chemistry B, 2000, 104, 2444-2447.	2.6	75
14	Differing HOMO and LUMO Mediated Conduction in a Porphyrin Nanorod. Journal of the American Chemical Society, 2010, 132, 8554-8556.	13.7	66
15	Supramolecular Structures of Coronene and Alkane Acids at the Au(111)â^`Solution Interface:Â A Scanning Tunneling Microscopy Study. Langmuir, 2005, 21, 919-923.	3.5	65
16	A Single Molecule Level Study of the Temperature-Dependent Kinetics for the Formation of Metal Porphyrin Monolayers on Au(111) from Solution. Journal of the American Chemical Society, 2014, 136, 2142-2148.	13.7	61
17	Effect of dispersion on surface interactions of cobalt(<scp>ii</scp>) octaethylporphyrin monolayer on Au(111) and HOPG(0001) substrates: a comparative first principles study. Physical Chemistry Chemical Physics, 2014, 16, 14096-14107.	2.8	58
18	A Scanning Tunneling Microscopy Study of Self-Assembled Nickel(II) Octaethylporphyrin Deposited from Solutions on HOPG. Langmuir, 2006, 22, 5697-5701.	3.5	55

#	Article	IF	CITATIONS
19	Interaction of wide band gap single crystals with 248 nm excimer laser radiation. IV. Positive ion emission from MgO and NaNO3. Journal of Applied Physics, 1996, 80, 6452-6466.	2.5	49
20	Stability of a Surface Adlayer at Elevated Temperature:  Coronene and Heptanoic Acid on Au(111). Journal of Physical Chemistry C, 2008, 112, 2026-2031.	3.1	49
21	Correlating elastic properties and molecular organization of an ionic organic nanostructure. Nanoscale, 2014, 6, 316-327.	5.6	45
22	A Self-Assembled Two-Dimensional Zwitterionic Structure: H ₆ TSPP Studied on Graphite. Journal of Physical Chemistry C, 2011, 115, 3990-3999.	3.1	38
23	Kinetic and Thermodynamic Control in Porphyrin and Phthalocyanine Self-Assembled Monolayers. Langmuir, 2018, 34, 3-17.	3.5	37
24	Electron Tunneling, a Quantum Probe for the Quantum World of Nanotechnology. Journal of Chemical Education, 2005, 82, 704.	2.3	33
25	Controlled Manipulation of Self-Organized Ni(II)â^'Octaethylporphyrin Molecules Deposited from Solution on HOPG with a Scanning Tunneling Microscope. Journal of Physical Chemistry C, 2007, 111, 17516-17520.	3.1	32
26	Temperature Stability of Three Commensurate Surface Structures of Coronene Adsorbed on Au(111) from Heptanoic Acid in the 0 to 60 ŰC Range. Journal of Physical Chemistry C, 2013, 117, 2914-2919.	3.1	32
27	Comprehensive structure–function correlation of photoactive ionic π-conjugated supermolecular assemblies: an experimental and computational study. Journal of Materials Chemistry C, 2016, 4, 10223-10239.	5.5	32
28	EPR, Electronic, and Vibrational Spectra of the CuCl64- Anion in [tris(2-aminoethyl)amineH4]2[CuCl6]Cl4·2H2O and Crystal Structure of the Complex. Inorganic Chemistry, 1996, 35, 5300-5303.	4.0	28
29	Kinetically Trapped Two-Component Self-Assembled Adlayer. Journal of Physical Chemistry C, 2015, 119, 25364-25376.	3.1	27
30	Desorption Kinetics and Activation Energy for Cobalt Octaethylporphyrin from Graphite at the Phenyloctane Solution–Graphite Interface: An STM Study. Journal of Physical Chemistry C, 2015, 119, 9386-9394.	3.1	26
31	A Systematic Approach toward Designing Functional Ionic Porphyrin Crystalline Materials. Journal of Physical Chemistry C, 2018, 122, 22803-22820.	3.1	25
32	Spontaneous Solution-Phase Redox Deposition of a Dense Cobalt(II) Phthalocyanine Monolayer on Gold. Journal of Physical Chemistry B, 2004, 108, 17003-17006.	2.6	24
33	Charge transfer induced chemical reaction of tetracyano-p-quinodimethane adsorbed on graphene. RSC Advances, 2012, 2, 10579.	3.6	24
34	Hyperbranched crystalline nanostructure produced from ionic π-conjugated molecules. Chemical Communications, 2015, 51, 2663-2666.	4.1	23
35	Surface directed reversible imidazole ligation to nickel(<scp>ii</scp>) octaethylporphyrin at the solution/solid interface: a single molecule level study. Physical Chemistry Chemical Physics, 2016, 18, 20819-20829.	2.8	23
36	Predicting the Size Distribution in Crystallization of TSPP:TMPyP Binary Porphyrin Nanostructures in a Batch Desupersaturation Experiment. Crystal Growth and Design, 2014, 14, 6599-6606.	3.0	22

#	Article	IF	CITATIONS
37	Organization of Vanadyl and Metal-Free Tetraphenoxyphthalocyanine Complexes on Highly Oriented Pyrolytic Graphite in the Presence of Paraffinic Solvents: A STM Study. Journal of Physical Chemistry C, 2008, 112, 20347-20356.	3.1	20
38	Scanning Tunneling Microscopy and Orbital-Mediated Tunneling Spectroscopy Study of 1,5-Di(octyloxy)anthracene Adsorbed on Highly Ordered Pyrolytic Graphite from Various Solvents and in Different Environments. Journal of Physical Chemistry C, 2007, 111, 7735-7740.	3.1	19
39	Influence of the Central Metal Ion on the Desorption Kinetics of a Porphyrin from the Solution/HOPG Interface. Journal of Physical Chemistry C, 2016, 120, 18140-18150.	3.1	18
40	Structure, Properties, and Reactivity of Porphyrins on Surfaces and Nanostructures with Periodic DFT Calculations. Applied Sciences (Switzerland), 2020, 10, 740.	2.5	18
41	Protonation state of core nitrogens in the <i>meso</i> -tetra(4-carboxyphenyl)porphyrin impacts the chemical and physical properties of nanostructures formed in acid solutions. Journal of Porphyrins and Phthalocyanines, 2012, 16, 1233-1243.	0.8	17
42	Amorphous or nanocrystalline AlN thin films formed from AlN: H. Journal of Materials Research, 1994, 9, 1449-1455.	2.6	15
43	Polymorphic, Porous, and Host–Guest Nanostructures Directed by Monolayer–Substrate Interactions: Epitaxial Self-Assembly Study of Cyclic Trinuclear Au(I) Complexes on HOPG at the Solution–Solid Interface. Journal of Physical Chemistry C, 2015, 119, 24844-24858.	3.1	15
44	Tuning the optoelectronic characteristics of ionic organic crystalline assemblies. Journal of Materials Chemistry C, 2018, 6, 4041-4056.	5.5	15
45	Nanomechanical properties of ordered phthalocyanine Langmuir–Blodgett layers. Journal of Materials Research, 2004, 19, 1461-1470.	2.6	14
46	Goldâ€coated tungsten tips for scanning tunneling microscopy. Review of Scientific Instruments, 1993, 64, 1495-1501.	1.3	13
47	Photoconductive behavior of binary porphyrin crystalline assemblies. Journal of Porphyrins and Phthalocyanines, 2017, 21, 569-580.	0.8	12
48	The formation of transition aluminas during oxidation of AlN. Journal of Materials Science Letters, 1999, 18, 877-879.	0.5	11
49	Cooperativity and coverage dependent molecular desorption in self-assembled monolayers: computational case study with coronene on Au(111) and HOPG. Physical Chemistry Chemical Physics, 2019, 21, 10505-10513.	2.8	11
50	Balancing Noncovalent Interactions in the Self-Assembly of Nonplanar Aromatic Carboxylic Acid MOF Linkers at the Solution/Solid Interface: HOPG vs Au(111). Langmuir, 2019, 35, 5271-5280.	3.5	11
51	STM Investigation of the Y[C6S-Pc]2 and Y[C4O-Pc]2Complex at the Solution–Solid Interface: Substrate Effects, Submolecular Resolution, and Vacancies. Journal of Physical Chemistry C, 2021, 125, 1421-1431.	3.1	10
52	A new variable temperature solution-solid interface scanning tunneling microscope. Review of Scientific Instruments, 2014, 85, 103701.	1.3	9
53	Temperature Independence of Orbital Mediated Tunneling in Cobalt(II) Phthalocyanine. Journal of Physical Chemistry C, 2010, 114, 13349-13353.	3.1	8
54	Functional Porphyrin Nanostructures for Molecular Electronics: Structural, Mechanical, and		8

Electronic Properties of Self-Assembled Ionic Metal-Free Porphyrins. , 2016, , 69-103.

#	Article	IF	CITATIONS
55	Cooperative Binding of 1-Phenylimidazole to Cobalt(II) Octaethylporphyrin on Graphite: A Quantitative Imaging and Computational Study at Molecular Resolution. Journal of Physical Chemistry C, 2020, 124, 18639-18649.	3.1	8
56	Scanning Tunneling Microscopy Reveals Surface Diffusion of Single Double-Decker Phthalocyanine Molecules at the Solution/Solid Interface. Journal of Physical Chemistry C, 2022, 126, 4140-4149.	3.1	8
57	Quantifying reversible nitrogenous ligand binding to Co(<scp>ii</scp>) porphyrin receptors at the solution/solid interface and in solution. Physical Chemistry Chemical Physics, 2020, 22, 24226-24235.	2.8	6
58	The use of scanning conduction microscopy to probe abrasion of insulating thin films. Review of Scientific Instruments, 1995, 66, 3802-3806.	1.3	5
59	Optimization of Film Stresses Utilized in Composite Piezoelectric Membrane Microgenerators. Materials Research Society Symposia Proceedings, 2003, 795, 493.	0.1	5
60	Tunneling Spectroscopy of Organic Monolayers and Single Molecules. Topics in Current Chemistry, 2011, 313, 189-215.	4.0	5
61	Single molecule level studies of reversible ligand binding to metal porphyrins at the solution/solid interface. Journal of Porphyrins and Phthalocyanines, 2020, 24, 993-1002.	0.8	5
62	Persistent Conductivity in TPyP:TSPP Organic Nanorods Induced by Ion Bombardment. Journal of Physical Chemistry C, 2016, 120, 14962-14968.	3.1	5
63	Alkynyl Linkers as a Design Tool to Gain Control over the Self-Assembly of Meso-Substituted Porphyrins on HOPG. Langmuir, 2020, 36, 4897-4907.	3.5	4
64	Characterizing the CH ₃ SSCH ₃ –Au(111) System From Single Molecules To Full Surface Coverage: A Scanning Tunneling Microscopy Study. Journal of Physical Chemistry C, 2021, 125, 21988-21996.	3.1	4
65	Single-Molecule Kinetic Analysis of Oxygenation of Co(II) Porphyrin at the Solution/Solid Interface. Journal of Physical Chemistry Letters, 2022, 13, 4918-4923.	4.6	4
66	Tunnelling reveals forbidden transitions. Nature, 1987, 326, 107-108.	27.8	3
67	Physical Chemistry at the Nanometer Scale. Journal of Chemical Education, 2005, 82, 693.	2.3	3
68	Morphology Dependent Conductivity and Photoconductivity of Ionic Porphyrin Crystalline Assemblies. ECS Journal of Solid State Science and Technology, 2020, 9, 061010.	1.8	3
69	Mechanical behavior of crystalline ionic porphyrins. Journal of Porphyrins and Phthalocyanines, 2019, 23, 154-165.	0.8	2
70	Chemical Effects of substrate Temperature and Feed Gas Composition on Ion Beam Deposited AlN and AlN:H. Materials Research Society Symposia Proceedings, 1995, 388, 367.	0.1	1
71	A scanning conduction microscopic method for probing abrasion of insulating thin films. Tribology Letters, 1995, 1, 159.	2.6	1
72	Role of the Supporting Surface in the Thermodynamics and Cooperativity of Axial Ligand Binding to Metalloporphyrins at Interfaces. Current Organic Chemistry, 2022, 26, 553-562.	1.6	1

#	Article	IF	CITATIONS
73	Scanning Conduction Microscopy: A Method of Probing Abrasion of Insulating Thin Films on Conducting Substrates. Materials Research Society Symposia Proceedings, 1995, 385, 221.	0.1	Ο
74	A New variable temperature solution-solid interface scanning tunneling microscope. Microscopy and Microanalysis, 2015, 21, 2187-2188.	0.4	0
75	Structure-Function Correlation of Photoactive Ionic pi-Conjugated Binary Porphyrin Assemblies. MRS Advances, 2017, 2, 2267-2273.	0.9	Ο
76	Mechanical behavior of crystalline ionic porphyrins. , 2021, , 855-866.		0
77	Quantifying Reversible Nitrogenous Ligand Binding to Co(II) Porphyrin Receptors at the Solution/Solid Interface and in Solution. ECS Meeting Abstracts, 2021, MA2021-01, 788-788.	0.0	Ο
78	STM Investigation of Y[C6s-Pc]2 and Y[C4o-Pc]2 Complexes at the Solution/Solid Interface: Substrate Effects, Sub-Molecular Resolution, and Covalently Saturated Sulfur. ECS Meeting Abstracts, 2021, MA2021-01, 787-787.	0.0	0