Hans-Peter Steinrck

List of Publications by Citations

422 papers	17,058 citations	70 h-index	111 g-index
445 ext. papers	18,450 ext. citations	5 avg, IF	6.63 L-index

#	Paper	IF	Citations
422	The synthesis of nanostructured Ni5 P4 films and their use as a non-noble bifunctional electrocatalyst for full water splitting. *Angewandte Chemie - International Edition*, **2015**, 54, 12361-5	16.4	630
421	Covalent bulk functionalization of graphene. *Nature Chemistry*, **2011**, 3, 279-86	17.6	525
420	A generic interface to reduce the efficiency-stability-cost gap of perovskite solar cells. *Science*, **2017**, 358, 1192-1197	33.3	418
419	Wet chemical synthesis of graphene. *Advanced Materials*, **2013**, 25, 3583-7	24	392
418	Liquid Organic Hydrogen Carriers (LOHCs): Toward a Hydrogen-free Hydrogen Economy. *Accounts of Chemical Research*, **2017**, 50, 74-85	24.3	383
417	Towards a molecular understanding of cation-anion interactions--probing the electronic structure of imidazolium ionic liquids by NMR spectroscopy, X-ray photoelectron spectroscopy and theoretical calculations. *Chemistry - A European Journal*, **2010**, 16, 9018-33	4.8	241
416	Photoelectron spectroscopy of ionic liquid-based interfaces. *Chemical Reviews*, **2010**, 110, 5158-90	68.1	234
415	Ionic Liquids in Catalysis. *Catalysis Letters*, **2015**, 145, 380-397	2.8	225
414	Direct synthesis of a metalloporphyrin complex on a surface. *Journal of the American Chemical Society*, **2006**, 128, 5644-5	16.4	215
413	Nanoporous Au: An Unsupported Pure Gold Catalyst?. *Journal of Physical Chemistry C*, **2009**, 113, 5593-5600	4.8	205
412	Thermal stability of Pt films on TiO2(110): evidence for encapsulation. *Surface Science*, **1995**, 339, 83-95	1.8	198
411	Density and surface tension of ionic liquids. *Journal of Physical Chemistry B*, **2010**, 114, 17025-36	3.4	187
410	Coordination and metalation bifunctionality of Cu with 5,10,15,20-tetra(4-pyridyl)porphyrin: toward a mixed-valence two-dimensional coordination network. *Journal of the American Chemical Society*, **2012**, 134, 6401-8	16.4	178
409	The surface trans effect: influence of axial ligands on the surface chemical bonds of adsorbed metalloporphyrins. *Journal of the American Chemical Society*, **2011**, 133, 6206-22	16.4	178
408	Interaction of Cobalt(II) Tetraarylporphyrins with a Ag(111) Surface Studied with Photoelectron Spectroscopy. *Journal of Physical Chemistry C*, **2007**, 111, 3090-3098	3.8	171
407	Influence of different substituents on the surface composition of ionic liquids studied using ARXPS. *Journal of Physical Chemistry B*, **2009**, 113, 2854-64	3.4	166
406	Liquid/solid interface of ultrathin ionic liquid films: [C1C1Im][Tf2N] and [C8C1Im][Tf2N] on Au(111). *Langmuir*, **2011**, 27, 3662-71	4	159

405	Influence of different anions on the surface composition of ionic liquids studied using ARXPS. *Journal of Physical Chemistry B*, **2009**, 113, 8682-8	3.4	158
404	Principle and mechanism of direct porphyrin metalation: joint experimental and theoretical investigation. *Journal of the American Chemical Society*, **2007**, 129, 9476-83	16.4	156
403	Surface science and model catalysis with ionic liquid-modified materials. *Advanced Materials*, **2011**, 23, 2571-87	24	154
402	Coordination of Iron Atoms by Tetraphenylporphyrin Monolayers and Multilayers on Ag(111) and Formation of Iron-Tetraphenylporphyrin. *Journal of Physical Chemistry C*, **2008**, 112, 15458-15465	3.8	144
401	Gallium-rich Pd-Ga phases as supported liquid metal catalysts. *Nature Chemistry*, **2017**, 9, 862-867	17.6	140
400	Graphene on Ni(111): Coexistence of Different Surface Structures. *Journal of Physical Chemistry Letters*, **2011**, 2, 759-764	6.4	139
399	Insights into the surface composition and enrichment effects of ionic liquids and ionic liquid mixtures. *Physical Chemistry Chemical Physics*, **2010**, 12, 1905-15	3.6	127
398	NO-induced reversible switching of the electronic interaction between a porphyrin-coordinated cobalt ion and a silver surface. *Journal of the American Chemical Society*, **2007**, 129, 12110-1	16.4	126
397	Ultrathin films of Pt on TiO2(110): Growth and chemisorption-induced surfactant effects. *Physical Review B*, **1995**, 51, 2427-2439	3.3	124
396	Direct Metalation of a Phthalocyanine Monolayer on Ag(111) with Coadsorbed Iron Atoms. *Journal of Physical Chemistry C*, **2008**, 112, 6087-6092	3.8	122
395	Physical vapor deposition of [EMIM][Tf2N]: a new approach to the modification of surface properties with ultrathin ionic liquid films. *ChemPhysChem*, **2008**, 9, 2185-90	3.2	120
394	Electronic structure of benzene adsorbed on single-domain Si(001)-(2□): A combined experimental and theoretical study. *Journal of Chemical Physics*, **1998**, 108, 5554-5564	3.9	120
393	Excitation, deexcitation, and fragmentation in the core region of condensed and adsorbed water. *Journal of Chemical Physics*, **1990**, 93, 58-75	3.9	115
392	Methane activation by platinum: critical role of edge and corner sites of metal nanoparticles. *Chemistry - A European Journal*, **2010**, 16, 6530-9	4.8	112
391	Surface characterization of functionalized imidazolium-based ionic liquids. *Langmuir*, **2008**, 24, 9500-7	4	112
390	The adsorption of benzene mono- and multilayers on Ni(111) studied by TPD and LEED. *Surface Science*, **1989**, 218, 293-316	1.8	106
389	Toward ionic-liquid-based model catalysis: growth, orientation, conformation, and interaction mechanism of the [Tf2N]- anion in [BMIM][Tf2N] thin films on a well-ordered alumina surface. *Langmuir*, **2010**, 26, 7199-207	4	105
388	Surface enrichment and depletion effects of ions dissolved in an ionic liquid: an X-ray photoelectron spectroscopy study. *Angewandte Chemie - International Edition*, **2006**, 45, 7778-80	16.4	105

387	Kinetic parameters of CO adsorbed on Pt(111) studied by in situ high resolution x-ray photoelectron spectroscopy. *Journal of Chemical Physics*, **2002**, 117, 10852-10859	3.9	104
386	Determination of adsorption sites of pure and coadsorbed CO on Ni(111) by high resolution X-ray photoelectron spectroscopy. *Surface Science*, **1998**, 398, 154-171	1.8	103
385	Effects of Support and Rh Additive on Co-Based Catalysts in the Ethanol Steam Reforming Reaction. *ACS Catalysis*, **2014**, 4, 1205-1218	13.1	100
384	Recent developments in the study of ionic liquid interfaces using X-ray photoelectron spectroscopy and potential future directions. *Physical Chemistry Chemical Physics*, **2012**, 14, 5010-29	3.6	98
383	Growth and electronic structure of boron-doped graphene. *Physical Review B*, **2013**, 87,	3.3	96
382	Precursors and trapping in the molecular chemisorption of CO on Ni(100). *Surface Science*, **1987**, 180, 47-76	1.8	96
381	Carbon dioxide capture by an amine functionalized ionic liquid: fundamental differences of surface and bulk behavior. *Journal of the American Chemical Society*, **2014**, 136, 436-41	16.4	95
380	Surface Studies on the Ionic Liquid 1-Ethyl-3-Methylimidazolium Ethylsulfate Using X-Ray Photoelectron Spectroscopy (XPS). *Zeitschrift Fur Physikalische Chemie*, **2006**, 220, 1439-1453	3.1	95
379	Ordering aspects and intramolecular conformation of tetraphenylporphyrins on Ag(111). *Physical Chemistry Chemical Physics*, **2010**, 12, 13082-90	3.6	94
378	New setup for in situ x-ray photoelectron spectroscopy from ultrahigh vacuum to 1mbar. *Review of Scientific Instruments*, **2005**, 76, 014102	1.7	94
377	Core excitation, decay, and fragmentation in solid benzene as studied by x-ray absorption, resonant Auger, and photon stimulated desorption. *Journal of Chemical Physics*, **1992**, 96, 1724-1734	3.9	93
376	Adsorption and desorption of CO on Pt(1 1 1): a comprehensive analysis. *Surface Science*, **2003**, 545, 47-68	1.8	92
375	Photoinduced degradation of methylammonium lead triiodide perovskite semiconductors. *Journal of Materials Chemistry A*, **2016**, 4, 15896-15903	13	92
374	Microscopic models of PdZn alloy catalysts: structure and reactivity in methanol decomposition. *Physical Chemistry Chemical Physics*, **2007**, 9, 3470-82	3.6	91
373	Microscopic evidence of the metalation of a free-base porphyrin monolayer with iron. *ChemPhysChem*, **2007**, 8, 241-3	3.2	91
372	The electronic structure and molecular symmetry of pure benzene and benzene coadsorbed with CO on Ni(111). *Surface Science*, **1989**, 217, 103-126	1.8	91
371	Tetraphenylporphyrin picks up zinc atoms from a silver surface. *Chemical Communications*, **2007**, 568-70	5.8	89
370	The dynamics of the dissociative adsorption of alkanes on Ir(110). *Journal of Chemical Physics*, **1987**, 86, 6506-6514	3.9	86

369	IN-SITU CORE-LEVEL PHOTOELECTRON SPECTROSCOPY OF ADSORBATES ON SURFACES INVOLVING A MOLECULAR BEAM GENERAL SETUP AND FIRST EXPERIMENTS. *Surface Review and Letters*, **2002**, 09, 797-801	1.1	85
368	Near ambient pressure XPS investigation of the interaction of ethanol with Co/CeO2(111). *Journal of Catalysis*, **2013**, 307, 132-139	7.3	84
367	Electron-beam-induced deposition in ultrahigh vacuum: lithographic fabrication of clean iron nanostructures. *Small*, **2008**, 4, 841-6	11	84
366	Electronic properties of thin Zn layers on Pd(111) during growth and alloying. *Surface Science*, **2006**, 600, 78-94	1.8	84
365	Production of Nitrogen-Doped Graphene by Low-Energy Nitrogen Implantation. *Journal of Physical Chemistry C*, **2012**, 116, 5062-5066	3.8	83
364	Model Catalytic Studies of Liquid Organic Hydrogen Carriers: Dehydrogenation and Decomposition Mechanisms of Dodecahydro--ethylcarbazole on Pt(111). *ACS Catalysis*, **2014**, 4, 657-665	13.1	82
363	The sticking coefficient of H2 on Ni(111) as a function of particle energy and angle of incidence: A test of detailed balancing. *Surface Science*, **1985**, 154, 99-108	1.8	81
362	Combined Photoemission and Scanning Tunneling Microscopy Study of the Surface-Assisted Ullmann Coupling Reaction. *Journal of Physical Chemistry C*, **2014**, 118, 6820-6830	3.8	76
361	Interfaces of ionic liquids and transition metal surfaces-adsorption, growth, and thermal reactions of ultrathin [C1C1Im][Tf2N] films on metallic and oxidised Ni(111) surfaces. *Physical Chemistry Chemical Physics*, **2012**, 14, 5153-63	3.6	76
360	Dehydrogenation of dodecahydro-N-ethylcarbazole on Pd/Al2O3 model catalysts. *Chemistry - A European Journal*, **2011**, 17, 11542-52	4.8	76
359	Growth and electronic structure of nitrogen-doped graphene on Ni(111). *Physical Review B*, **2012**, 86,	3.3	73
358	At the ionic liquid|metal interface: structure formation and temperature dependent behavior of an ionic liquid adlayer on Au(111). *Physical Chemistry Chemical Physics*, **2013**, 15, 17295-302	3.6	72
357	In situ high-resolution XPS studies on adsorption of NO on Pt(111). *Surface Science*, **2003**, 529, 384-396	1.8	72
356	A molecular beam study of the adsorption dynamics of CO on Ru(0001), Cu(111) and a pseudomorphic Cu monolayer on Ru(0001). *Surface Science*, **1999**, 440, 307-320	1.8	72
355	Adsorption probabilities of H2 and D2 on various flat and stepped nickel surfaces. *Physical Review B* , **1985**, 32, 5032-5037	3.3	72
354	Diffusion, Rotation, and Surface Chemical Bond of Individual 2H-Tetraphenylporphyrin Molecules on Cu(111). *Journal of Physical Chemistry C*, **2011**, 115, 24172-24177	3.8	71
353	A new asymmetric Pseudo-Voigt function for more efficient fitting of XPS lines. *Surface and Interface Analysis*, **2014**, 46, 505-511	1.5	70
352	In situ high-resolution X-ray photoelectron spectroscopy Fundamental insights in surface reactions. *Surface Science Reports*, **2013**, 68, 446-487	12.9	70

351	Ionic liquid based model catalysis: interaction of [BMIM][Tf2N] with Pd nanoparticles supported on an ordered alumina film. *Physical Chemistry Chemical Physics*, **2010**, 12, 10610-21	3.6	70
350	Adsorption of cobalt (II) octaethylporphyrin and 2H-octaethylporphyrin on Ag(111): new insight into the surface coordinative bond. *New Journal of Physics*, **2009**, 11, 125004	2.9	68
349	Dehydrogenation mechanism of liquid organic hydrogen carriers: dodecahydro-N-ethylcarbazole on Pd(111). *Chemistry - A European Journal*, **2013**, 19, 10854-65	4.8	67
348	Electrons as "invisible ink": fabrication of nanostructures by local electron beam induced activation of SiOx. *Angewandte Chemie - International Edition*, **2010**, 49, 4669-73	16.4	66
347	Temperature-Dependent Chemical and Structural Transformations from 2H-tetraphenylporphyrin to Copper(II)-Tetraphenylporphyrin on Cu(111). *Journal of Physical Chemistry C*, **2012**, 116, 12275-12282	3.8	63
346	The electronic structure of cobalt(II) phthalocyanine adsorbed on Ag(111). *Surface Science*, **2012**, 606, 945-949	1.8	63
345	The adsorption of H2O on clean and oxygen precovered Ni(111) studied by ARUPS and TPD. *Surface Science*, **1989**, 224, 195-214	1.8	63
344	Activation energy for the self-metalation reaction of 2H-tetraphenylporphyrin on Cu(111). *Angewandte Chemie - International Edition*, **2012**, 51, 10898-901	16.4	62
343	Understanding the contrast mechanism in scanning tunneling microscopy (STM) images of an intermixed tetraphenylporphyrin layer on Ag(111). *Langmuir*, **2008**, 24, 1897-901	4	62
342	Low-temperature partial dissociation of water on Cu(110). *Chemical Physics Letters*, **2003**, 377, 163-169	2.5	62
341	Activated adsorption of methane on Pt(1 1 1) □nin situXPS study. *New Journal of Physics*, **2005**, 7, 107-107	2.9	62
340	Dissociation and oxidation of methanol on Cu(). *Surface Science*, **2002**, 507-510, 845-850	1.8	62
339	The role of surface defects in the adsorption and sesorption of hydrogen on Ni(111). *Surface Science*, **1987**, 185, 469-478	1.8	62
338	Surface-Confined Two-Step Synthesis of the Complex (Ammine)(meso-tetraphenylporphyrinato)-zinc(II) on Ag(111). *Journal of Physical Chemistry C*, **2007**, 111, 5821-5824	3.8	61
337	Azimuthal reorientation of adsorbed molecules induced by lateral interactions: benzene/Ni(110). *Surface Science*, **1991**, 253, 72-98	1.8	59
336	Chemical Fingerprints of Large Organic Molecules in Scanning Tunneling Microscopy: Imaging Adsorbate□Substrate Coupling of Metalloporphyrins. *Journal of Physical Chemistry C*, **2009**, 113, 16450-16457	3.8	58
335	Surface science goes liquid !. *Surface Science*, **2010**, 604, 481-484	1.8	58
334	Heterogeneous gold catalysts for efficient access to functionalized lactones. *Chemistry - A European Journal*, **2008**, 14, 9412-8	4.8	58

333	Electronic structure and orientation of NO on Ni(111) studied by arups using synchrotron radiation. *Surface Science*, **1989**, 208, 136-154	1.8	58
332	Band structure of BeTe: A combined experimental and theoretical study. *Physical Review B*, **1998**, 58, 10394-10400	3.3	57
331	Lateral interactions and azimuthal orientation of pure and coadsorbed benzene layers on Ni(111). *Surface Science*, **1991**, 258, 16-22	1.8	57
330	Microscopic insights into methane activation and related processes on Pt/ceria model catalysts. *ChemPhysChem*, **2010**, 11, 1496-504	3.2	56
329	Dehydrogenation of dodecahydro-N-ethylcarbazole on Pt(111). *ChemSusChem*, **2013**, 6, 974-7	8.3	55
328	Polymorphism of Porphyrin Molecules on Ag(111) and How to Weave a Rigid Monolayer. *Journal of Physical Chemistry C*, **2007**, 111, 13531-13538	3.8	55
327	Industrially scalable and cost-effective Mn2+ doped ZnxCd1⊠S/ZnS nanocrystals with 70% photoluminescence quantum yield, as efficient down-shifting materials in photovoltaics. *Energy and Environmental Science*, **2016**, 9, 1083-1094	35.4	53
326	Size and Structure Effects Controlling the Stability of the Liquid Organic Hydrogen Carrier Dodecahydro-N-ethylcarbazole during Dehydrogenation over Pt Model Catalysts. *Journal of Physical Chemistry Letters*, **2014**, 5, 1498-504	6.4	53
325	Kinetics of the CO oxidation reaction on Pt(111) studied by in situ high-resolution x-ray photoelectron spectroscopy. *Journal of Chemical Physics*, **2004**, 120, 7113-22	3.9	53
324	Interfacial Behavior of Thin Ionic Liquid Films on Mica. *Journal of Physical Chemistry C*, **2013**, 117, 5101-5118	4.8	52
323	Growth and oxidation of graphene on Rh(111). *Physical Chemistry Chemical Physics*, **2013**, 15, 19625-31	3.6	52
322	Interfacial coordination interactions studied on cobalt octaethylporphyrin and cobalt tetraphenylporphyrin monolayers on Au(111). *Physical Chemistry Chemical Physics*, **2010**, 12, 4336-44	3.6	51
321	Angle-resolved photoemission studies of adsorbed hydrocarbons. *Journal of Physics Condensed Matter*, **1996**, 8, 6465-6509	1.8	51
320	Studying the dynamic behaviour of porphyrins as prototype functional molecules by scanning tunnelling microscopy close to room temperature. *Chemical Communications*, **2014**, 50, 9034-48	5.8	50
319	Substrate-mediated phase separation of two porphyrin derivatives on Cu(111). *Chemistry - A European Journal*, **2011**, 17, 10226-9	4.8	49
318	Vibrationally resolved in situ XPS study of activated adsorption of methane on Pt(111). *Chemical Physics Letters*, **2004**, 390, 208-213	2.5	49
317	A site-selective in situ study of CO adsorption and desorption on Pt(355). *Journal of Chemical Physics*, **2006**, 124, 74712	3.9	48
316	The electronic structure of ethylene on Ni(110): an experimental and theoretical study. *Surface Science*, **1992**, 271, 539-554	1.8	48

315	Reversible hydrogenation of graphene on ni(111)-synthesis of "graphone". *Chemistry - A European Journal*, **2015**, 21, 3347-58	4.8	47
314	Abrupt Coverage-Induced Enhancement of the Self-Metalation of Tetraphenylporphyrin with Cu(111). *Journal of Physical Chemistry C*, **2014**, 118, 1661-1667	3.8	47
313	Few layer 2D pnictogens catalyze the alkylation of soft nucleophiles with esters. *Nature Communications*, **2019**, 10, 509	17.4	45
312	The dissimilar twins – a comparative, site-selective in situ study of CO adsorption and desorption on Pt(3 2 2) and Pt(3 5 5). *Surface Science*, **2007**, 601, 1108-1117	1.8	45
311	Light-atom location in adsorbed benzene by experiment and theory. *Physical Review Letters*, **2001**, 87, 216102	7.4	44
310	Energy Storage in Strained Organic Molecules: (Spectro)Electrochemical Characterization of Norbornadiene and Quadricyclane. *ChemSusChem*, **2016**, 9, 1424-32	8.3	43
309	Lattice Opening upon Bulk Reductive Covalent Functionalization of Black Phosphorus. *Angewandte Chemie - International Edition*, **2019**, 58, 5763-5768	16.4	42
308	Insights in Reaction Mechanistics: Isotopic Exchange during the Metalation of Deuterated Tetraphenyl-21,23D-porphyrin on Cu(111). *Journal of Physical Chemistry C*, **2014**, 118, 26729-26736	3.8	42
307	Sulphur dioxide adsorption on the Ni(110) surface. *Surface Science*, **1993**, 295, 295-305	1.8	42
306	The interaction of CO and Ar molecular beams with Ir(110). *Surface Science*, **1987**, 185, 36-52	1.8	42
305	Highly efficient dissociation of condensed and adsorbed water via core-to-bound excitation. *Chemical Physics Letters*, **1988**, 148, 371-376	2.5	42
304	Organic reactions in ionic liquids studied by in situ XPS. *ChemPhysChem*, **2012**, 13, 1725-35	3.2	41
303	Adsorption and thermal evolution of SO2 on the Pt(110) surface. *Surface Science*, **1997**, 371, 235-244	1.8	41
302	A detailed analysis of vibrational excitations in x-ray photoelectron spectra of adsorbed small hydrocarbons. *Journal of Chemical Physics*, **2006**, 125, 204706	3.9	41
301	Coadsorption of D2O and CO on Pt(111) Studied by in Situ High-Resolution X-ray Photoelectron Spectroscopy. *Langmuir*, **2004**, 20, 1819-1826	4	41
300	Benzene coadsorbed with CO and NO on Ru(001). *Surface Science*, **1989**, 210, 282-300	1.8	41
299	NO-Induced Reorganization of Porphyrin Arrays. *ACS Nano*, **2009**, 3, 1789-94	16.7	40
298	Formation of the calcium/poly(3-hexylthiophene) interface: structure and energetics. *Journal of the American Chemical Society*, **2009**, 131, 13498-507	16.4	40

297	CO2 activation on single crystal based ceria and magnesia/ceria model catalysts. *European Physical Journal B*, **2010**, 75, 89-100	1.2	39
296	Probing the interaction of Rh, Co and bimetallic Rh-Co nanoparticles with the CeO2 support: catalytic materials for alternative energy generation. *Physical Chemistry Chemical Physics*, **2015**, 17, 27154-66	3.6	38
295	Evidence for an active oxygen species on Au/TiO2(110) model catalysts during investigation with in situ X-ray photoelectron spectroscopy. *Catalysis Today*, **2012**, 181, 20-25	5.3	38
294	Chloroalkylsulfonate ionic liquids by ring opening of sultones with organic chloride salts. *Chemical Communications*, **2008**, 3867-9	5.8	38
293	Photochemical Energy Storage and Electrochemically Triggered Energy Release in the Norbornadiene-Quadricyclane System: UV Photochemistry and IR Spectroelectrochemistry in a Combined Experiment. *Journal of Physical Chemistry Letters*, **2017**, 8, 2819-2825	6.4	37
292	On the energetics of conformational switching of molecules at and close to room temperature. *Journal of the American Chemical Society*, **2014**, 136, 1609-16	16.4	37
291	Interfacial Interactions of Iron(II) Tetrapyrrole Complexes on Au(111). *Journal of Physical Chemistry C*, **2011**, 115, 17028-17035	3.8	37
290	The role of defects in the dissociative adsorption of CO on Ni(100). *Surface Science*, **1986**, 172, L561-L567	1.8	37
289	Highly Effective Propane Dehydrogenation Using Ga-Rh Supported Catalytically Active Liquid Metal Solutions. *ACS Catalysis*, **2019**, 9, 9499-9507	13.1	36
288	Growth of Stable Surface Oxides on Pt(111) at Near-Ambient Pressures. *Angewandte Chemie - International Edition*, **2017**, 56, 2594-2598	16.4	35
287	Generation of clean iron structures by electron-beam-induced deposition and selective catalytic decomposition of iron pentacarbonyl on Rh(110). *Langmuir*, **2009**, 25, 11930-9	4	35
286	An accurate technique to measure angle-resolved flash desorption spectra. *Surface Science*, **1985**, 152-153, 323-327	1.8	35
285	Reactivity of Graphene-Supported Pt Nanocluster Arrays. *ACS Catalysis*, **2015**, 5, 2397-2403	13.1	34
284	Overcoming Interfacial Losses in Solution-Processed Organic Multi-Junction Solar Cells. *Advanced Energy Materials*, **2017**, 7, 1601959	21.8	34
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282	Tilted adsorption of benzene on Pt(110) 1 2. *Surface Science*, **1998**, 396, 61-77	1.8	34
281	Energy and temperature dependent sticking coefficients of CO on ultrathin copper layers on Ru(001). *Surface Science*, **1999**, 433-435, 27-31	1.8	34
280	The adsorption of acetylene on Ni(110): An experimental and theoretical study. *Journal of Chemical Physics*, **1995**, 102, 9709-9724	3.9	33

279	Porphyrin Metalation at MgO Surfaces: A Spectroscopic and Quantum Mechanical Study on Complementary Model Systems. *Chemistry - A European Journal*, **2016**, 22, 1744-9	4.8	32
278	Liquid organic hydrogen carriers: surface science studies of carbazole derivatives. *Chemical Record*, **2014**, 14, 879-96	6.6	32
277	Oxidation of stepped Pt(111) studied by x-ray photoelectron spectroscopy and density functional theory. *Physical Review B*, **2011**, 83,	3.3	32
276	Modeling NOx Storage Materials: On the Formation of Surface Nitrites and Nitrates and Their Identification by Vibrational Spectroscopy. *Journal of Physical Chemistry C*, **2008**, 112, 6477-6486	3.8	32
275	Formation of the ZnSe/(Te/)GaAs(100) heterojunction. *Surface Science*, **2003**, 531, 77-85	1.8	32
274	Ethylene adsorbed on Ni(110): An experimental and theoretical determination of the two-dimensional band structure. *Physical Review B*, **1992**, 46, 1675-1686	3.3	32
273	"Inverted" porphyrins: a distorted adsorption geometry of free-base porphyrins on Cu(111). *Chemical Communications*, **2017**, 53, 8207-8210	5.8	31
272	Coverage dependent disorder-order transition of 2H-tetraphenylporphyrin on Cu(111). *Langmuir*, **2013**, 29, 4104-10	4	31
271	Determination of layer-resolved composition, magnetization, and electronic structure of an Fe/MgO tunnel junction by standing-wave core and valence photoemission. *Physical Review B*, **2011**, 84,	3.3	31
270	Decoupling of graphene from Ni(111) via formation of an interfacial NiO layer. *Carbon*, **2017**, 121, 10-16	10.4	30
269	Influence of substituents and functional groups on the surface composition of ionic liquids. *Chemistry - A European Journal*, **2014**, 20, 3954-65	4.8	30
268	Influence of Steps on the Adsorption of Methane on Platinum Surfaces. *Journal of Physical Chemistry C*, **2007**, 111, 2177-2184	3.8	30
267	Coverage-dependent changes in the adsorption geometries of ordered benzene layers on Ru(0 0 0 1). *Surface Science*, **2001**, 475, 18-36	1.8	30
266	A molecular beam investigation on the kinetic energy dependence of the activation of ethane on the reconstructed Ir(110)-(1 ×2) surface. *Surface Science*, **1986**, 173, L571-L575	1.8	30
265	Sulfur oxidation on Pt(355): it is the steps!. *Angewandte Chemie - International Edition*, **2009**, 48, 9743-6	16.4	29
264	CO oxidation on Pt(111) at near ambient pressures. *Journal of Chemical Physics*, **2016**, 144, 044706	3.9	29
263	A facile approach to synthesize an oxo-functionalized graphene/polymer composite for low-voltage operating memory devices. *Journal of Materials Chemistry C*, **2015**, 3, 8595-8604	7.1	28
262	Toward well-defined metal-polymer interfaces: temperature-controlled suppression of subsurface diffusion and reaction at the calcium/poly(3-hexylthiophene) interface. *Journal of the American Chemical Society*, **2010**, 132, 12163-5	16.4	28

261	The thermal chemistry of saturated layers of acetylene and ethylene on Ni(100) studied by in situ synchrotron x-ray photoelectron spectroscopy. *Journal of Chemical Physics*, **2003**, 119, 1710-1718	3.9	28
260	The growth of thin Cu layers on Ni(111) studied by CO titration and photoelectron spectroscopy. *Surface Science*, **2000**, 453, 201-213	1.8	28
259	Angle-resolved thermal desorption spectra for CO and H2from Ni(111), Ni(110) and polycrystalline nickel. *Journal of Physics C: Solid State Physics*, **1984**, 17, L311-L316		28
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257	Hungry Porphyrins: Protonation and Self-Metalation of Tetraphenylporphyrin on TiO2(110) - 1 □1. *ChemistrySelect*, **2016**, 1, 6103-6105	1.8	27
256	Ligand effects on the surface composition of Rh-containing ionic liquid solutions used in hydroformylation catalysis. *Chemistry - A European Journal*, **2010**, 16, 12083-7	4.8	27
255	Massive conformational changes during thermally induced self-metalation of 2H-tetrakis-(3,5-di-tert-butyl)-phenylporphyrin on Cu(111). *Chemical Communications*, **2014**, 50, 10225-8	5.8	26
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