

Hans-Joachim Freund

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.

830
papers

41,547
citations

100
h-index

157
g-index

877
ext. papers

43,514
ext. citations

5
avg, IF

7.49
L-index

#	Paper	IF	Citations
830	Mesoscopic Structures and Coexisting Phases in Silica Films.. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 3736-3742	3.8	2
829	Electron-Stimulated Hydroxylation of Silica Bilayer Films Grown on Ru(0001): A Combined HREELS and EPR Study. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 7956-7964	3.8	0
828	A high-speed variable-temperature ultrahigh vacuum scanning tunneling microscope with spiral scan capabilities. <i>Review of Scientific Instruments</i> , 2022 , 93, 053704	1.7	2
827	Spiral high-speed scanning tunneling microscopy: Tracking atomic diffusion on the millisecond timescale. <i>Applied Physics Letters</i> , 2021 , 119, 251601	3.4	3
826	Surface Action Spectroscopy: A Review and a Perspective on a New Technique to Study Vibrations at Surfaces. <i>Chemical Record</i> , 2021 , 21, 1270-1283	6.6	5
825	Insights into Reaction Kinetics in Confined Space: Real Time Observation of Water Formation under a Silica Cover. <i>Journal of the American Chemical Society</i> , 2021 , 143, 8780-8790	16.4	5
824	Electronic structure of reduced CeO ₂ (111) surfaces interacting with hydrogen as revealed through electron energy loss spectroscopy in comparison with theoretical investigations. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2021 , 147088	1.7	1
823	Continuous network structure of two-dimensional silica across a supporting metal step edge: An atomic scale study. <i>Physical Review Materials</i> , 2021 , 5,	3.2	3
822	Growth and Atomic-Scale Characterization of Ultrathin Silica and Germania Films: The Crucial Role of the Metal Support. <i>Chemistry - A European Journal</i> , 2021 , 27, 1870-1885	4.8	7
821	Size effect in two-dimensional oxide-on-metal catalysts of CO oxidation and its connection to oxygen bonding: An experimental and theoretical approach. <i>Journal of Catalysis</i> , 2021 , 393, 100-106	7.3	4
820	Interaction of Hydrogen with Ceria: Hydroxylation, Reduction, and Hydride Formation on the Surface and in the Bulk. <i>Chemistry - A European Journal</i> , 2021 , 27, 5268-5276	4.8	16
819	Interaction of CO ₂ with well-ordered iron sulfide films on Au(111). <i>Surface Science</i> , 2021 , 710, 121853	1.8	
818	A Silica Bilayer Supported on Ru(0001): Following the Crystalline-to Vitreous Transformation in Real Time with Spectro-microscopy. <i>Angewandte Chemie</i> , 2020 , 132, 10674-10680	3.6	1
817	Binding Behavior of Carbonmonoxide to Gold Atoms on Ag(001). <i>Topics in Catalysis</i> , 2020 , 63, 1578-1584	2.3	
816	A Silica Bilayer Supported on Ru(0001): Following the Crystalline-to Vitreous Transformation in Real Time with Spectro-microscopy. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 10587-10593	16.4	9
815	Elucidating Surface Structure with Action Spectroscopy. <i>Journal of the American Chemical Society</i> , 2020 , 142, 2665-2671	16.4	9
814	Wasserunterstützte homolytische Dissoziation von Propin auf reduzierter Ceroxidoberfläche. <i>Angewandte Chemie</i> , 2020 , 132, 6206-6211	3.6	1

813	Water-Assisted Homolytic Dissociation of Propyne on a Reduced Ceria Surface. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 6150-6154	16.4	5
812	Chapter model systems in heterogeneous catalysis at the atomic level: a personal view. <i>Science China Chemistry</i> , 2020 , 63, 426-447	7.9	11
811	Thin Oxide Films as Model Systems for Heterogeneous Catalysts. <i>Springer Handbooks</i> , 2020 , 267-328	1.3	0
810	Revisiting surface core-level shifts for ionic compounds. <i>Physical Review B</i> , 2019 , 100,	3.3	13
809	Growth of well-ordered iron sulfide thin films. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 20204-20210	3.6	2
808	Adsorption and Decomposition of Glycerol on Pristine and Oxygen Modified Au(111) Surfaces. <i>Topics in Catalysis</i> , 2019 , 62, 1053-1066	2.3	
807	Interaction of water with oxide thin film model systems. <i>Journal of Materials Research</i> , 2019 , 34, 360-378	2.5	7
806	Molecular beam/infrared reflection-absorption spectroscopy apparatus for probing heterogeneously catalyzed reactions on functionalized and nanostructured model surfaces. <i>Review of Scientific Instruments</i> , 2019 , 90, 053903	1.7	10
805	From Crystalline to Amorphous Germania Bilayer Films at the Atomic Scale: Preparation and Characterization. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 10903-10908	16.4	8
804	Water Ordering on the Magnetite FeO Surfaces. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2487-2492	3.4	8
803	From Crystalline to Amorphous Germania Bilayer Films at the Atomic Scale: Preparation and Characterization. <i>Angewandte Chemie</i> , 2019 , 131, 11019-11024	3.6	1
802	Interaction of Gold with Oxide Nanoparticles: Size or Electronic Effect?. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 12376-12381	3.8	6
801	Publications of Hans-Joachim Freund. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 7512-7520	3.8	
800	Characterization of Phonon Vibrations of Silica Bilayer Films. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 7110-7117	3.8	6
799	Oxidation of Reduced Ceria by Incorporation of Hydrogen. <i>Angewandte Chemie</i> , 2019 , 131, 14828-14835	3.6	19
798	Oxidation of Reduced Ceria by Incorporation of Hydrogen. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 14686-14693	16.4	57
797	Acetylene Reactivity on PdCu Nanoparticles Supported on Thin Silica Films: The Role of the Underlying Substrate. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 17425-17431	3.8	2
796	Surface core level BE shifts for CaO(100): insights into physical origins. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 25431-25438	3.6	10

795	Assessing the film-substrate interaction in germania films on reconstructed Au(111). <i>Physical Review B</i> , 2019 , 100,	3.3	2
794	CO ₂ Adsorption on CaO(001): Temperature-Programmed Desorption and Infrared Study. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 1880-1887	3.8	5
793	Scanning Tunneling Microscopy of the Ordered Water Monolayer on MgO(001)/Ag(001) Ultrathin Films. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 3711-3718	3.8	5
792	Gold-Decorated Biphase α -Fe ₂ O ₃ (0001): Activation by CO-Induced Surface Reduction. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 8221-8227	3.8	2
791	Electronic properties of ultrathin O-terminated ZnO (0001) on Au (111). <i>Surface Science</i> , 2019 , 679, 259-263	3.8	4
790	Formation and Evolution of Ultrathin Silica Polymorphs on Ru(0001) Studied with Combined in Situ, Real-Time Methods. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 8228-8243	3.8	10
789	Atomic structure of a metal-supported two-dimensional germania film. <i>Physical Review B</i> , 2018 , 97,	3.3	14
788	A Two-Dimensional 'Zigzag' Silica Polymorph on a Metal Support. <i>Journal of the American Chemical Society</i> , 2018 , 140, 6164-6168	16.4	11
787	Influence of Substrate Bonding and Surface Morphology on Dynamic Organic Layer Growth: Perylenetetracarboxylic Dianhydride on Au(111). <i>Langmuir</i> , 2018 , 34, 5444-5453	4	3
786	Water Formation under Silica Thin Films: Real-Time Observation of a Chemical Reaction in a Physically Confined Space. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 8749-8753	16.4	29
785	Kooperative Bildung einer langreichweitig geordneten Wasserschicht auf der Fe ₃ O ₄ (111)-Oberfläche. <i>Angewandte Chemie</i> , 2018 , 130, 1423-1428	3.6	2
784	Water Adsorption to Crystalline Cu ₂ O Thin Films: Structural and Vibrational Properties. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 2195-2199	3.8	8
783	Controlling the charge state of supported nanoparticles in catalysis: lessons from model systems. <i>Chemical Society Reviews</i> , 2018 , 47, 8474-8502	58.5	93
782	Ultrathin silica films on Pd(111): Structure and adsorption properties. <i>Surface Science</i> , 2018 , 678, 118-123	3.8	19
781	Surface Termination of FeO(111) Films Studied by CO Adsorption Revisited. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 527-533	3.4	35
780	Charge Control in Model Catalysis: The Decisive Role of the Oxide-Nanoparticle Interface. <i>Chemistry - A European Journal</i> , 2018 , 24, 2317-2327	4.8	25
779	Surface Reactivity of Titania/Vanadia Mixed Oxides Under Oxidizing Conditions. <i>Topics in Catalysis</i> , 2018 , 61, 792-799	2.3	1
778	Surface Science Approach to Catalyst Preparation Using Thin Oxide Films as Substrates 2018 , 632-642		

777	Theory as a driving force to understand reactions on nanoparticles: general discussion. <i>Faraday Discussions</i> , 2018 , 208, 147-185	3.6	1
776	The challenges of characterising nanoparticulate catalysts: general discussion. <i>Faraday Discussions</i> , 2018 , 208, 339-394	3.6	4
775	Water adsorption on the FeO(111) surface: dissociation and network formation. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 15764-15774	3.6	19
774	Wasserbildung unter dünnen Silika-Filmen: Echtzeitbeobachtung einer chemischen Reaktion in einem physikalisch eingegrenzten Raum. <i>Angewandte Chemie</i> , 2018 , 130, 8885-8889	3.6	5
773	Carbon Monoxide Oxidation on Metal-Supported Monolayer Oxide Films: Establishing Which Interface is Active. <i>Angewandte Chemie</i> , 2018 , 130, 1275-1279	3.6	9
772	Carbon Monoxide Oxidation on Metal-Supported Monolayer Oxide Films: Establishing Which Interface is Active. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 1261-1265	16.4	29
771	Model systems in heterogeneous catalysis: towards the design and understanding of structure and electronic properties. <i>Faraday Discussions</i> , 2018 , 208, 307-323	3.6	7
770	Cooperative Formation of Long-Range Ordering in Water Ad-layers on Fe O (111) Surfaces. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 1409-1413	16.4	41
769	Planar model system of the Phillips (Cr/SiO ₂) catalyst based on a well-defined thin silicate film. <i>Journal of Catalysis</i> , 2018 , 357, 12-19	7.3	11
768	Transfer of 2D Silica Films 2018 , 360-366		
767	CO ₂ Adsorption on Magnetite Fe ₃ O ₄ (111). <i>Journal of Physical Chemistry C</i> , 2018 , 122, 27433-27441	3.8	16
766	Hydrogen-induced metallization on the ZnO(0001) surface. <i>Physical Review B</i> , 2018 , 98,	3.3	8
765	Surface action spectroscopy with rare gas messenger atoms. <i>Review of Scientific Instruments</i> , 2018 , 89, 083107	1.7	5
764	Bending Rigidity of 2D Silica. <i>Physical Review Letters</i> , 2018 , 120, 226101	7.4	11
763	Support Effects on CO Oxidation on Metal-supported Ultrathin FeO(1 1 1) Films. <i>ChemCatChem</i> , 2017 , 9, 705-712	5.2	14
762	Initial stages of CO adsorption on CaO: a combined experimental and computational study. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 4231-4242	3.6	31
761	Transition Metal Induced Crystallization of Ultrathin Silica Films. <i>Chemistry of Materials</i> , 2017 , 29, 931-934	4.6	7
760	Controlling Silica in Its Crystalline and Amorphous States: A Problem in Surface Science. <i>Accounts of Chemical Research</i> , 2017 , 50, 446-449	24.3	18

759	Vibrational Action Spectroscopy of Solids: New Surface-Sensitive Technique. <i>Physical Review Letters</i> , 2017 , 119, 136101	7.4	7
758	Oxygen Scrambling of CO ₂ Adsorbed on CaO(001). <i>Journal of Physical Chemistry C</i> , 2017 , 121, 18625-18638	3.8	11
757	Selective Partial Hydrogenation of Acrolein on Pd: A Mechanistic Study. <i>ACS Catalysis</i> , 2017 , 7, 5523-5533	3.1	24
756	Ultrathin Zn and ZnO films on Cu(111) as model catalysts. <i>Applied Catalysis A: General</i> , 2017 , 548, 16-23	5.1	23
755	Gas Separation through Bilayer Silica, the Thinnest Possible Silica Membrane. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 43061-43071	9.5	27
754	Toward an Understanding of Selective Alkyne Hydrogenation on Ceria: On the Impact of O Vacancies on H Interaction with CeO(111). <i>Journal of the American Chemical Society</i> , 2017 , 139, 17608-17614	16.4	76
753	Insights into Silica Bilayer Hydroxylation and Dissolution. <i>Topics in Catalysis</i> , 2017 , 60, 471-480	2.3	15
752	Carbon Dioxide Adsorption on V ₂ O ₃ (0001). <i>Topics in Catalysis</i> , 2017 , 60, 413-419	2.3	9
751	Models for heterogeneous catalysts: studies at the atomic level. <i>Rendiconti Lincei</i> , 2017 , 28, 5-18	1.7	9
750	Assessing the amorphousness and periodicity of common domain boundaries in silica bilayers on Ru(0 0 0 1). <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 035002	1.8	19
749	Effect of vanadium admixing on the surface structure of TiO ₂ (110) under non-oxidizing conditions. <i>Surface Science</i> , 2016 , 653, 181-186	1.8	8
748	Correlation Between Substrate Morphology and the Initial Stages of Epitaxial Organic Growth: PTCDA/Ag(111). <i>Journal of Physical Chemistry C</i> , 2016 , 120, 19271-19279	3.8	11
747	Preparation and structure of Fe-containing aluminosilicate thin films. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 25027-25035	3.6	9
746	Selective Hydrogenation of Acrolein Over Pd Model Catalysts: Temperature and Particle-Size Effects. <i>Chemistry - A European Journal</i> , 2016 , 22, 15856-15863	4.8	19
745	Location of Trapped Electron Centers in the Bulk of Epitaxial MgO(001) Films Grown on Mo(001) Using in Situ W-band Electron Paramagnetic Resonance Spectroscopy. <i>Physical Review Letters</i> , 2016 , 117, 016801	7.4	4
744	A Large-Area Transferable Wide Band Gap 2D Silicon Dioxide Layer. <i>ACS Nano</i> , 2016 , 10, 7982-9	16.7	37
743	Resolving amorphous solid-liquid interfaces by atomic force microscopy. <i>Applied Physics Letters</i> , 2016 , 108, 201602	3.4	14
742	Designing new catalysts: synthesis of new active structures: general discussion. <i>Faraday Discussions</i> , 2016 , 188, 131-59	3.6	4

741	Catalyst design from theory to practice: general discussion. <i>Faraday Discussions</i> , 2016 , 188, 279-307	3.6	2
740	Preparation of silica films on Ru(0001): A LEEM/PEEM study. <i>Surface Science</i> , 2016 , 643, 45-51	1.8	17
739	LEED I/V determination of the structure of a MoO ₃ monolayer on Au(111): Testing the performance of the CMA-ES evolutionary strategy algorithm, differential evolution, a genetic algorithm and tensor LEED based structural optimization. <i>Surface Science</i> , 2016 , 649, 90-100	1.8	2
738	Exploring Pd adsorption, diffusion, permeation, and nucleation on bilayer SiO ₂ /Ru as a function of hydroxylation and precursor environment: From UHV to catalyst preparation. <i>Surface Science</i> , 2016 , 652, 286-293	1.8	7
737	Building block analysis of 2D amorphous networks reveals medium range correlation. <i>Journal of Non-Crystalline Solids</i> , 2016 , 435, 40-47	3.9	31
736	Phase transformations in thin iron oxide films: Spectromicroscopic study of velocity and shape of the reaction fronts. <i>Surface Science</i> , 2016 , 648, 177-187	1.8	31
735	Oxidation of the Ru(0001) surface covered by weakly bound, ultrathin silicate films. <i>Surface Science</i> , 2016 , 646, 19-25	1.8	24
734	Reducing the V ₂ O ₃ (0001) surface through electron bombardment--a quantitative structure determination with I/V-LEED. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 3124-30	3.6	8
733	Electron stimulated hydroxylation of a metal supported silicate film. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 3755-64	3.6	32
732	Supports and modified nano-particles for designing model catalysts. <i>Faraday Discussions</i> , 2016 , 188, 309-321	3.6	15
731	The Surface Science of Catalysis and More, Using Ultrathin Oxide Films as Templates: A Perspective. <i>Journal of the American Chemical Society</i> , 2016 , 138, 8985-96	16.4	62
730	Apparatus for low temperature thermal desorption spectroscopy of portable samples. <i>Review of Scientific Instruments</i> , 2016 , 87, 045103	1.7	3
729	Ag/ZnO hybrid systems studied with scanning tunnelling microscopy-based luminescence spectroscopy. <i>Journal of Applied Physics</i> , 2016 , 119, 095310	2.5	4
728	Decoupling a Thin Well-Ordered TiO ₂ (110) Layer from a TiO ₂ (110) Substrate with a Ti + Ta Mixed Oxide Interlayer. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 8185-8190	3.8	7
727	Adsorption of isophorone and trimethyl-cyclohexanone on Pd(111): A combination of infrared reflection absorption spectroscopy and density functional theory studies. <i>Surface Science</i> , 2016 , 650, 149-160	1.8	16
726	Interaction of Water with the CaO(001) Surface. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 5565-5576	3.8	38
725	Nanoscale Patterns on Polar Oxide Surfaces. <i>Chemistry of Materials</i> , 2016 , 28, 7433-7443	9.6	18
724	Growth of Fe ₃ O ₄ (001) thin films on Pt(100): Tuning surface termination with an Fe buffer layer. <i>Surface Science</i> , 2015 , 636, 42-46	1.8	23

723	Characterizing Crystalline-Vitreous Structures: From Atomically Resolved Silica to Macroscopic Bubble Rafts. <i>Journal of Chemical Education</i> , 2015 , 92, 1896-1902	2.4	4
722	The Atomic Structure of Two-Dimensional Silica. <i>Nanoscience and Technology</i> , 2015 , 327-353	0.6	7
721	Phonon-mediated electron transport through CaO thin films. <i>Physical Review Letters</i> , 2015 , 114, 016804	7.4	10
720	Ultrathin Ti-Silicate Film on a Ru(0001) Surface. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 15443-15448	3.8	13
719	Molecular Adsorption Changes the Quantum Structure of Oxide-Supported Gold Nanoparticles: Chemisorption versus Physisorption. <i>Physical Review Letters</i> , 2015 , 115, 036804	7.4	24
718	Surface structure of V ₂ O ₃ (0001) revisited. <i>Physical Review Letters</i> , 2015 , 114, 216101	7.4	28
717	Formation of Water Chains on CaO(001): What Drives the 1D Growth?. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 1204-8	6.4	25
716	Stabilization of Ultrathin Zinc Oxide Films on Metals: Reconstruction versus Hydroxylation. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 7842-7847	3.8	34
715	Weak thermal reduction of biphasic Fe ₂ O ₃ (0001) films grown on Pt(111): Sub-surface Fe ²⁺ + formation. <i>Surface Science</i> , 2015 , 641, 30-36	1.8	8
714	Activating Nonreducible Oxides via Doping. <i>Accounts of Chemical Research</i> , 2015 , 48, 1532-9	24.3	40
713	Spectators Control Selectivity in Surface Chemistry: Acrolein Partial Hydrogenation Over Pd. <i>Journal of the American Chemical Society</i> , 2015 , 137, 13496-502	16.4	59
712	Direct observation of epitaxial organic film growth: temperature-dependent growth mechanisms and metastability. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 29150-60	3.6	18
711	Characterization of O ₂ Centers on Single Crystalline MgO(001)-Films. <i>Topics in Catalysis</i> , 2015 , 58, 811-823	2.3	4
710	Model Approach in Heterogeneous Catalysis: Kinetics and Thermodynamics of Surface Reactions. <i>Accounts of Chemical Research</i> , 2015 , 48, 2775-82	24.3	37
709	Surface Structure of V ₂ O ₃ (0001): A Combined I/V-LEED and STM Study. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 22961-22969	3.8	18
708	The Frontiers of Catalysis Science and Future Challenges. <i>Catalysis Letters</i> , 2015 , 145, 1-2	2.8	15
707	The role of exposed silver in CO oxidation over MgO(0 0 1)/Ag(0 0 1) thin films. <i>Catalysis Today</i> , 2015 , 240, 206-213	5.3	8
706	Models in Catalysis. <i>Catalysis Letters</i> , 2015 , 145, 109-125	2.8	106

705	Ultrathin silicatene/silicon-carbide hybrid film on a metal substrate. <i>Surface Science</i> , 2015 , 632, 9-13	1.8	13
704	Nature of active sites in Ni ₂ P hydrotreating catalysts as probed by iron substitution. <i>Applied Catalysis B: Environmental</i> , 2015 , 164, 204-216	21.8	77
703	Ultra-thin silicate films on metals. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 443001	1.8	11
702	Defect complexes in Li-doped MgO. <i>Physical Review B</i> , 2015 , 91,	3.3	15
701	Probing the electronic properties and charge state of gold nanoparticles on ultrathin MgO versus thick doped CaO films. <i>Physical Review B</i> , 2015 , 92,	3.3	22
700	Water Interaction with Iron Oxides. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 13942-6	16.4	50
699	Aktivierung und Elektronentransfer-induzierte Reaktion von Kohlendioxid an einer Oxid-Metall-Grenzfläche. <i>Angewandte Chemie</i> , 2015 , 127, 12661-12665	3.6	12
698	John T. Yates, Jr. 1935-2015. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 14225	16.4	
697	Enhanced CO Oxidation on the Oxide/Metal Interface: From Ultra-High Vacuum to Near-Atmospheric Pressures. <i>ChemCatChem</i> , 2015 , 7, 2620-2627	5.2	42
696	Does the Surface Structure of Oxide Affect the Strong MetalSupport Interaction with Platinum? Platinum on Fe ₃ O ₄ (0 0 1) versus Fe ₃ O ₄ (1 1 1). <i>ChemCatChem</i> , 2015 , 7, 3725-3730	5.2	20
695	Carbon dioxide activation and reaction induced by electron transfer at an oxide-metal interface. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 12484-7	16.4	71
694	MgO on Mo(001): Local Work Function Measurements above Pristine Terrace and Line Defect Sites. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 12283-12290	3.8	14
693	Atomic Scale Characterization of Defects on Oxide Surfaces. <i>Springer Series in Surface Sciences</i> , 2015 , 29-80	0.4	8
692	Evolution of the electronic structure of CaO thin films following Mo interdiffusion at high temperature. <i>Physical Review B</i> , 2015 , 91,	3.3	12
691	Cooperative Chemisorption-Induced Physisorption of CO ₂ Molecules by Metal-Organic Chains. <i>ACS Nano</i> , 2015 , 9, 12124-36	16.7	18
690	Preparation of Pd/MgO model catalysts by deposition of Pd from aqueous precursor solutions onto Ag(0 0 1)-supported MgO(0 0 1) thin films. <i>Applied Catalysis A: General</i> , 2014 , 474, 186-193	5.1	22
689	Reactivity of Ultra-Thin ZnO Films Supported by Ag(111) and Cu(111): A Comparison to ZnO/Pt(111). <i>Catalysis Letters</i> , 2014 , 144, 648-655	2.8	62
688	A case of strong metal-support interactions: combining advanced microscopy and model systems to elucidate the atomic structure of interfaces. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 5998-6001	16.4	119

687	Surface core-level binding energy shifts for MgO(100). <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 21953-6	3.6	26
686	Structural Transformations of Zinc Oxide Layers on Pt(111). <i>Journal of Physical Chemistry C</i> , 2014 , 118, 28725-28729	3.8	38
685	A fresh look at an old nano-technology: catalysis. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 8148-67	3.6	51
684	Hydrogen Evolution from Metal Surface Hydroxyl Interaction. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 17717-17723	3.8	15
683	Tuning Spatial Distribution of Surface Hydroxyls on a Metal-Supported Single-Layer Silica. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 1701-4	6.4	10
682	Oxygen activation on oxide surfaces: A perspective at the atomic level. <i>Catalysis Today</i> , 2014 , 238, 2-9	5.3	17
681	Permeation of a Single-Layer SiO ₂ Membrane and Chemistry in Confined Space. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 29034-29042	3.8	49
680	Model Studies on Heterogeneous Catalysts at the Atomic Scale. <i>Topics in Catalysis</i> , 2014 , 57, 822-832	2.3	9
679	Adsorption of Au and Pd on Ruthenium-Supported Bilayer Silica. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 20959-20969	3.8	38
678	Luminescence Properties of Nitrogen-Doped ZnO. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 13693-13698	3.8	32
677	Preparation of an ordered ultra-thin aluminosilicate framework composed of hexagonal prisms forming a percolated network. <i>Microporous and Mesoporous Materials</i> , 2014 , 189, 91-96	5.3	11
676	Adsorption of thioether molecules on an alumina thin film. <i>Surface Science</i> , 2014 , 628, 111-115	1.8	8
675	Metall-Substrat-Wechselwirkung: Kombination von hochauflösender Mikroskopie und Modellsystemen, um die atomare Struktur von Grenzflächen aufzuklären. <i>Angewandte Chemie</i> , 2014 , 126, 6108-6112	3.6	25
674	Ceria Nanocrystals Exposing Wide (100) Facets: Structure and Polarity Compensation. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1400404	4.6	38
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