Bernhard KlÃ¶tzer

List of Publications by Year
in descending order

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		76326	114465
122	4,716	40	63
papers	citations	h-index	g-index
124	124	124	5111
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	In Situ FT-IR Spectroscopic Study of CO₂ and CO Adsorption on Y₂O₃, ZrO₂, and Yttria-Stabilized ZrO₂. Journal of Physical Chemistry C, 2013, 117, 17666-17673.	3.1	268
2	How to Control the Selectivity of Palladiumâ€based Catalysts in Hydrogenation Reactions: The Role of Subsurface Chemistry. ChemCatChem, 2012, 4, 1048-1063.	3.7	223
3	In situ XPS study of Pd(111) oxidation at elevated pressure, Part 2: Palladium oxidation in the 10âˆ’1mbar range. Surface Science, 2006, 600, 2980-2989.	1.9	146
4	Subsurfaceâ€Controlled CO₂ Selectivity of PdZn Nearâ€Surface Alloys in H₂ Generation by Methanol Steam Reforming. Angewandte Chemie - International Edition, 2010, 49, 3224-3227.	13.8	144
5	In situ XPS study of Pd(111) oxidation. Part 1: 2D oxide formation in 10âˆ’3mbar O2. Surface Science, 2006, 600, 983-994.	1.9	142
6	Ambient Pressure XPS Study of Mixed Conducting Perovskite-Type SOFC Cathode and Anode Materials under Well-Defined Electrochemical Polarization. Journal of Physical Chemistry C, 2016, 120, 1461-1471.	3.1	132
7	Enhancing Electrochemical Waterâ€Splitting Kinetics by Polarizationâ€Driven Formation of Nearâ€Surface Iron(0): An Inâ€…Situ XPS Study on Perovskiteâ€Type Electrodes. Angewandte Chemie - International Edition, 2015, 54, 2628-2632.	13.8	110
8	Surface Chemistry of Perovskite-Type Electrodes During High Temperature CO₂ Electrolysis Investigated by <i>Operando</i> Photoelectron Spectroscopy. ACS Applied Materials & Interfaces, 2017, 9, 35847-35860.	8.0	107
9	Hydrogen on In₂O₃: Reducibility, Bonding, Defect Formation, and Reactivity. Journal of Physical Chemistry C, 2010, 114, 9022-9029.	3.1	106
10	Comparison of the reactivity of different Pdâ€“O species in CO oxidation. Physical Chemistry Chemical Physics, 2007, 9, 533-540.	2.8	92
11	Pdâ€“In2O3 interaction due to reduction in hydrogen: Consequences for methanol steam reforming. Applied Catalysis A: General, 2010, 374, 180-188.	4.3	82
12	Methane Oxidation on Pd(111):â€‰ In Situ XPS Identification of Active Phase. Journal of Physical Chemistry C, 2007, 111, 7957-7962.	3.1	81
13	Novel methanol steam reforming activity and selectivity of pure In2O3. Applied Catalysis A: General, 2008, 347, 34-42.	4.3	81
14	Hydrogen Production by Methanol Steam Reforming on Copper Boosted by Zincâ€Assisted Water Activation. Angewandte Chemie - International Edition, 2012, 51, 3002-3006.	13.8	79
15	Growth and structural stability of well-ordered PdZn alloy nanoparticles. Journal of Catalysis, 2006, 241, 14-19.	6.2	78
16	Pd/Ga2O3 methanol steam reforming catalysts: Part I. Morphology, composition and structural aspects. Applied Catalysis A: General, 2009, 358, 193-202.	4.3	71
17	Steam reforming of methanol on PdZn near-surface alloys on Pd(1 1 1) and Pd foil studied by in-situ XPS, LEIS and PM-IRAS. Journal of Catalysis, 2010, 276, 101-113.	6.2	68
18	The Chemical Evolution of the La0.6Sr0.4CoO3âˆ’Î´ Surface Under SOFC Operating Conditions and Its Implications for Electrochemical Oxygen Exchange Activity. Topics in Catalysis, 2018, 61, 2129-2141.	2.8	65

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19	The state of zinc in methanol synthesis over a Zn/ZnO/Cu(211) model catalyst. Science, 2022, 376, 603-608.	12.6	65
20	Hydrogen on polycrystalline Î²-Ga2O3: Surface chemisorption, defect formation, and reactivity. Journal of Catalysis, 2008, 256, 268-277.	6.2	62
21	Oxygen-induced surface phase transformation of Pd(1 1 1): sticking, adsorption and desorption kinetics. Surface Science, 2001, 482-485, 237-242.	1.9	60
22	Carbon Incorporation in Pd(111) by Adsorption and Dehydrogenation of Ethene. Journal of Physical Chemistry B, 2006, 110, 4947-4952.	2.6	60
23	ZnO is a CO 2 -selective steam reforming catalyst. Journal of Catalysis, 2013, 297, 151-154.	6.2	59
24	Growth and decomposition of aligned and ordered PdO nanoparticles. Journal of Chemical Physics, 2006, 125, 094703.	3.0	58
25	Growth and decay of the Pd(111)â€"Pd5O4 surface oxide: Pressure-dependent kinetics and structural aspects. Surface Science, 2006, 600, 205-218.	1.9	57
26	Niâ€"perovskite interaction and its structural and catalytic consequences in methane steam reforming and methanation reactions. Journal of Catalysis, 2016, 337, 26-35.	6.2	56
27	In Situ-Determined Catalytically Active State of LaNiO₃ in Methane Dry Reforming. ACS Catalysis, 2020, 10, 1102-1112.	11.2	55
28	CO2-selective methanol steam reforming on In-doped Pd studied by in situ X-ray photoelectron spectroscopy. Journal of Catalysis, 2012, 295, 186-194.	6.2	53
29	Exsolution of Fe and SrO Nanorods and Nanoparticles from Lanthanum Strontium Ferrite La_{0.6}Sr_{0.4}FeO_{3âˆ’Î´} Materials by Hydrogen Reduction. Journal of Physical Chemistry C, 2015, 119, 22050-22056.	3.1	52
30	Pd/Ga2O3 methanol steam reforming catalysts: Part II. Catalytic selectivity. Applied Catalysis A: General, 2009, 358, 203-210.	4.3	51
31	Hydrogen Surface Reactions and Adsorption Studied on Y₂O₃, YSZ, and ZrO₂. Journal of Physical Chemistry C, 2014, 118, 8435-8444.	3.1	50
32	From zirconia to yttria: Sampling the YSZ phase diagram using sputter-deposited thin films. AIP Advances, 2016, 6, .	1.3	49
33	Zn Adsorption on Pd(111):Â ZnO and PdZn Alloy Formation. Journal of Physical Chemistry B, 2006, 110, 11391-11398.	2.6	48
34	In situ XPS study of methanol reforming on PdGa near-surface intermetallic phases. Journal of Catalysis, 2012, 290, 126-137.	6.2	48
35	Surface modification processes during methane decomposition on Cu-promoted Niâ€"ZrO₂ catalysts. Catalysis Science and Technology, 2015, 5, 967-978.	4.1	48
36	Surface composition changes of CuNi-ZrO2 during methane decomposition: An operando NAP-XPS and density functional study. Catalysis Today, 2017, 283, 134-143.	4.4	48

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37	Methane Decomposition and Carbon Growth on Y₂O₃, Yttria-Stabilized Zirconia, and ZrO₂. Chemistry of Materials, 2014, 26, 1690-1701.	6.7	44
38	Zirconiumâ€•Assisted Activation of Palladium To Boost Syngas Production by Methane Dry Reforming. Angewandte Chemie - International Edition, 2018, 57, 14613-14618.	13.8	44
39	The structure and composition of oxidized and reduced tungsten oxide thin films. Thin Solid Films, 2008, 516, 2829-2836.	1.8	42
40	Carbon incorporation during ethene oxidation on Pd(111) studied by in situ X-ray photoelectron spectroscopy at 2Ã—10âˆ’3Âmbar2Ã—10âˆ’3Âmbar. Journal of Catalysis, 2006, 242, 340-348.	6.2	41
41	From Oxideâ€•Supported Palladium to Intermetallic Palladium Phases: Consequences for Methanol Steam Reforming. ChemCatChem, 2013, 5, 1273-1285.	3.7	41
42	Structural and Electrochemical Properties of Physisorbed and Chemisorbed Water Layers on the Ceramic Oxides Y2O3, YSZ, and ZrO2. ACS Applied Materials & Interfaces, 2016, 8, 16428-16443.	8.0	41
43	Mechanistic insights into the catalytic methanol steam reforming performance of Cu/ZrO2 catalysts by in situ and operando studies. Journal of Catalysis, 2020, 391, 497-512.	6.2	41
44	Trimethylaluminum and Oxygen Atomic Layer Deposition on Hydroxyl-Free Cu(111). ACS Applied Materials & Interfaces, 2015, 7, 16428-16439.	8.0	39
45	Steering the Methane Dry Reforming Reactivity of Ni/La₂O₃ Catalysts by Controlled In Situ Decomposition of Doped La₂NiO₄ Precursor Structures. ACS Catalysis, 2021, 11, 43-59.	11.2	38
46	Defect formation and the waterâ€“gas shift reaction on Î²-Ga2O3. Journal of Catalysis, 2008, 256, 278-286.	6.2	37
47	Structural investigations of La_{0.6}Sr_{0.4}FeO_{3âˆ’Î´} under reducing conditions: kinetic and thermodynamic limitations for phase transformations and iron exsolution phenomena. RSC Advances, 2018, 8, 3120-3131.	3.6	37
48	Growth, thermal stability and structure of ultrathin Zn-layers on Pd(111). Surface Science, 2009, 603, 251-255.	1.9	36
49	Kinetics of Palladium Oxidation in the mbar Pressure Range: Ambient Pressure XPS Study. Topics in Catalysis, 2013, 56, 885-895.	2.8	35
50	Enhanced Kinetic Stability of Pure and Y-Doped Tetragonal ZrO₂. Inorganic Chemistry, 2014, 53, 13247-13257.	4.0	34
51	Quantum mechanical calculations of the vibrational spectra of quartz- and rutile-type GeO2. Physics and Chemistry of Minerals, 2012, 39, 47-55.	0.8	32
52	High-Temperature Carbon Deposition on Oxide Surfaces by CO Disproportionation. Journal of Physical Chemistry C, 2016, 120, 1795-1807.	3.1	32
53	Promotion of La(Cu0.7Mn0.3)0.98M0.02O3âˆ’Î´ (Mâ€¯=â€¯Pd, Pt, Ru and Rh) perovskite catalysts by noble metals for the reduction of NO by CO. Journal of Catalysis, 2019, 379, 18-32.	6.2	32
54	On the structural stability of crystalline ceria phases in undoped and acceptor-doped ceria materials under <i>in situ</i> reduction conditions. CrystEngComm, 2019, 21, 145-154.	2.6	32

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55	Adsorption and hydrogenation of CO on Pd() and Rh() modified by subsurface vanadium. Surface Science, 2003, 532-535, 142-147.	1.9	31
56	Surface chemistry of pure tetragonal ZrO₂ and gas-phase dependence of the tetragonal-to-monoclinic ZrO₂ transformation. Dalton Transactions, 2017, 46, 4554-4570.	3.3	31
57	The catalytic properties of thin film Pd-rich GaPd2 in methanol steam reforming. Journal of Catalysis, 2014, 309, 231-240.	6.2	29
58	Title is missing!. Topics in Catalysis, 2000, 14, 25-33.	2.8	28
59	Growth and stability of Ga2O3 nanospheres. Thin Solid Films, 2008, 516, 4742-4749.	1.8	26
60	Steering of methanol reforming selectivity by zirconiaâ€"copper interaction. Journal of Catalysis, 2015, 321, 123-132.	6.2	26
61	Reactive metal-support interaction in the Cu-In₂O₃ system: intermetallic compound formation and its consequences for CO₂-selective methanol steam reforming. Science and Technology of Advanced Materials, 2019, 20, 356-366.	6.1	26
62	Preparation and structural characterization of SnO2 and GeO2 methanol steam reforming thin film model catalysts by (HR)TEM. Materials Chemistry and Physics, 2010, 122, 623-629.	4.0	25
63	Rhodiumâ€Catalyzed Methanation and Methane Steam Reforming Reactions on Rhodiumâ€"Perovskite Systems: Metalâ€"Support Interaction. ChemCatChem, 2016, 8, 2057-2067.	3.7	25
64	Origin of different deactivation of Pd/SnO2 and Pd/GeO2 catalysts in methanol dehydrogenation and reforming: A comparative study. Applied Catalysis A: General, 2010, 381, 242-252.	4.3	24
65	Methanol steam reforming: CO2-selective Pd2Ga phases supported on Î±- and Î³-Ga2O3. Applied Catalysis A: General, 2013, 453, 34-44.	4.3	24
66	A high-temperature, ambient-pressure ultra-dry operando reactor cell for Fourier-transform infrared spectroscopy. Review of Scientific Instruments, 2014, 85, 084102.	1.3	24
67	A Comparative Discussion of the Catalytic Activity and CO2-Selectivity of Cu-Zr and Pd-Zr (Intermetallic) Compounds in Methanol Steam Reforming. Catalysts, 2017, 7, 53.	3.5	24
68	Water adsorption at zirconia: from the ZrO₂(111)/Pt₃Zr(0001) model system to powder samples. Journal of Materials Chemistry A, 2018, 6, 17587-17601.	10.3	24
69	A New Preparation Pathway to Well-Defined In2O3Nanoparticles at Low Substrate Temperatures. Journal of Physical Chemistry C, 2008, 112, 918-925.	3.1	23
70	Catalytic characterization of pure SnO2 and GeO2 in methanol steam reforming. Applied Catalysis A: General, 2010, 375, 188-195.	4.3	23
71	Surface Reactivity of YSZ, Y₂O₃, and ZrO₂ toward CO, CO₂, and CH₄: A Comparative Discussion. Journal of Physical Chemistry C, 2016, 120, 3882-3898.	3.1	23
72	Impregnated and Co-precipitated Pdâ€"Ga2O3, Pdâ€"In2O3 and Pdâ€"Ga2O3â€"In2O3 Catalysts: Influence of the Microstructure on the CO2 Selectivity in Methanol Steam Reforming. Catalysis Letters, 2018, 148, 3062-3071.	2.6	21

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73	A High-Resolution Diffraction and Spectroscopic Study of the Low-Temperature Phase Transformation of Hexagonal to Tetragonal GeO2 with and without Alkali Hydroxide Promotion. Journal of Physical Chemistry C, 2011, 115, 9706-9712.	3.1	20
74	Tuning of the copperâ€“zirconia phase boundary for selectivity control of methanol conversion. Journal of Catalysis, 2016, 339, 111-122.	6.2	20
75	Water-Gas Shift and Methane Reactivity on Reducible Perovskite-Type Oxides. Journal of Physical Chemistry C, 2015, 119, 11739-11753.	3.1	19
76	Microstructural and Chemical Evolution and Analysis of a Self-Activating CO₂-Selective Cuâ€“Zr Bimetallic Methanol Steam Reforming Catalyst. Journal of Physical Chemistry C, 2016, 120, 25395-25404.	3.1	19
77	Crystallographic and electronic evolution of lanthanum strontium ferrite (La_{0.6}Sr_{0.4}FeO_{3â^'Î´}) thin film and bulk model systems during iron exsolution. Physical Chemistry Chemical Physics, 2019, 21, 3781-3794.	2.8	18
78	Reduction of Different GeO₂ Polymorphs. Journal of Physical Chemistry C, 2012, 116, 9961-9968.	3.1	16
79	Boosting Hydrogen Production from Methanol and Water by inâ€…situ Activation of Bimetallic Cuâ^'Zr Species. ChemCatChem, 2016, 8, 1778-1781.	3.7	16
80	Structural and kinetic aspects of CO oxidation on ZnOx-modified Cu surfaces. Applied Catalysis A: General, 2019, 572, 151-157.	4.3	16
81	Mechanistic in situ insights into the formation, structural and catalytic aspects of the La2NiO4 intermediate phase in the dry reforming of methane over Ni-based perovskite catalysts. Applied Catalysis A: General, 2021, 612, 117984.	4.3	16
82	Catalytic Oxidation of Ethene on Polycrystalline Palladium: Influence of the Oxidation State of the Surface. Catalysis Letters, 2005, 104, 1-8.	2.6	15
83	Combined UHV/high-pressure catalysis setup for depth-resolved near-surface spectroscopic characterization and catalytic testing of model catalysts. Review of Scientific Instruments, 2014, 85, 055104.	1.3	15
84	Preparation and characterization of epitaxially grown unsupported yttria-stabilized zirconia (YSZ) thin films. Applied Surface Science, 2015, 331, 427-436.	6.1	15
85	Chemical vapor deposition-prepared sub-nanometer Zr clusters on Pd surfaces: promotion of methane dry reforming. Physical Chemistry Chemical Physics, 2016, 18, 31586-31599.	2.8	15
86	An (ultra) high-vacuum compatible sputter source for oxide thin film growth. Review of Scientific Instruments, 2013, 84, 094103.	1.3	14
87	Carbide-Modified Pd on ZrO2 as Active Phase for CO2-Reforming of Methaneâ€"A Model Phase Boundary Approach. Catalysts, 2020, 10, 1000.	3.5	14
88	Role of Precursor Carbides for Graphene Growth on Ni(111). Scientific Reports, 2018, 8, 2662.	3.3	13
89	Steering the methanol steam reforming performance of Cu/ZrO2 catalysts by modification of the Cu-ZrO2 interface dimensions resulting from Cu loading variation. Applied Catalysis A: General, 2021, 623, 118279.	4.3	13
90	Enhancing Electrochemical Waterâ€Splitting Kinetics by Polarizationâ€Driven Formation of Nearâ€Surface Iron(0): An Inâ€…Situ XPS Study on Perovskiteâ€Type Electrodes. Angewandte Chemie, 2015, 127, 2666-2670.	2.0	12

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91	Complex oxide thin films: Pyrochlore, defect fluorite and perovskite model systems for structural, spectroscopic and catalytic studies. Applied Surface Science, 2018, 452, 190-200.	6.1	12
92	H2 reduction of Gd- and Sm-doped ceria compared to pure CeO2 at high temperatures: effect on structure, oxygen nonstoichiometry, hydrogen solubility and hydroxyl chemistry. Physical Chemistry Chemical Physics, 2018, 20, 22099-22113.	2.8	12
93	The solâ€“gel autocombustion as a route towards highly CO₂-selective, active and long-term stable Cu/ZrO₂ methanol steam reforming catalysts. Materials Chemistry Frontiers, 2021, 5, 5093-5105.	5.9	12
94	Structural and chemical degradation mechanisms of pure YSZ and its components ZrO2 and Y2O3 in carbon-rich fuel gases. Physical Chemistry Chemical Physics, 2016, 18, 14333-14349.	2.8	11
95	Tailoring the metal-perovskite interface for promotional steering of the catalytic NO reduction by CO in the presence of H2O on Pd-lanthanum iron manganite composites. Applied Catalysis B: Environmental, 2022, 307, 121160.	20.2	11
96	Dry Reforming of Methane on NiCu and NiPd Model Systems: Optimization of Carbon Chemistry. Catalysts, 2022, 12, 311.	3.5	11
97	Growth and Alloying of Ultra-Thin Zn Layers on Pd(110). Journal of Physical Chemistry C, 2012, 116, 3635-3644.	3.1	10
98	Near-Ambient-Pressure X-ray Photoelectron Spectroscopy Study of Methane-Induced Carbon Deposition on Clean and Copper-Modified Polycrystalline Nickel Materials. Journal of Physical Chemistry C, 2015, 119, 26948-26958.	3.1	10
99	Distinct carbon growth mechanisms on the components of Ni/YSZ materials. Materials Chemistry and Physics, 2016, 173, 508-515.	4.0	10
100	Hydrogen-induced metal-oxide interaction studied on noble metal model catalysts. Reaction Kinetics and Catalysis Letters, 2006, 87, 215-234.	0.6	9
101	Structural and redox properties of VOxand Pd/VOxthin film model catalysts studied by TEM and SAED. Physical Chemistry Chemical Physics, 2007, 9, 2428-2433.	2.8	8
102	CO₂ Reduction on the Preâ€reduced Mixed Ionicâ€“Electronic Conducting Perovskites La_{0.6}Sr_{â€0.4}FeO_{3â€Î´} and SrTi_{0.7}Fe_{0.3}O_{3â€Î´}. ChemPhysChem, 2018, 19, 93-107.	2.1	8
103	Operando Fourier-transform infraredâ€“mass spectrometry reactor cell setup for heterogeneous catalysis with glovebox transfer process to surface-chemical characterization. Review of Scientific Instruments, 2021, 92, 024105.	1.3	8
104	CO₂ Reduction by Hydrogen Preâ€Reduced Acceptorâ€Doped Ceria. ChemPhysChem, 2019, 20, 1706-1718.	2.1	7
105	Who Does the Job? How Copper Can Replace Noble Metals in Sustainable Catalysis by the Formation of Copperâ€“Mixed Oxide Interfaces. ACS Catalysis, 2022, 12, 7696-7708.	11.2	7
106	Ethene Oxidation on Pd(111): Kinetic Hysteresis Induced by Carbon Dissolution. Catalysis Letters, 2007, 119, 191-198.	2.6	6
107	Dendritic growth of amorphous gallium oxide in mixed GaOx/WOx thin films. Materials Chemistry and Physics, 2009, 116, 175-182.	4.0	6
108	Structural and Catalytic Properties of Ag- and Co₃O₄-Impregnated Strontium Titanium Ferrite SrTi_{0.7}Fe_{0.3}O_{3âˆ’Î´} in Methanol Steam Reforming. Industrial & Engineering Chemistry Research, 2017, 56, 13654-13662.	3.7	6

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109	Substoichiometric zirconia thin films prepared by reactive sputtering of metallic zirconium using a direct current ion beam source. Surface Science, 2019, 680, 52-60.	1.9	6
110	Thin film model systems of ZrO2 and Y2O3 as templates for potential industrial applications investigated by means of electron microscopy. Materials Chemistry and Physics, 2013, 138, 384-391.	4.0	5
111	An ultra-flexible modular high vacuum setup for thin film deposition. Review of Scientific Instruments, 2019, 90, 023902.	1.3	5
112	Structureâ€“Property Relationships in the Y2O3â€“ZrO2 Phase Diagram: Influence of the Y-Content on Reactivity in C1 Gases, Surface Conduction, and Surface Chemistry. Journal of Physical Chemistry C, 2016, 120, 22443-22454.	3.1	4
113	Evidence for dissolved hydrogen in the mixed ionicâ€“electronic conducting perovskites La_{0.6}Sr_{0.4}FeO_{3âˆ’Î´} and SrTi_{0.7}Fe_{0.3}O_{3âˆ’Î´}. Physical Chemistry Chemical Physics, 2016, 18, 26873-26884.	2.8	4
114	Treading in the Limited Stability Regime of Lanthanum Strontium Ferrite â€” Reduction, Phase Change and Exsolution. ECS Transactions, 2019, 91, 1771-1781.	0.5	4
115	Formation and stability of small well-defined Cu- and Ni oxide particles. Materials Chemistry and Physics, 2013, 143, 184-194.	4.0	3
116	Alloying and Structure of Ultrathin Gallium Films on the (111) and (110) Surfaces of Palladium. Journal of Physical Chemistry C, 2013, 117, 19558-19567.	3.1	3
117	Zirconiumâ€‘assistierte Aktivierung von Palladium zur Steigerung der Produktion von Synthesegas in der Trockenreformierung von Methan. Angewandte Chemie, 2018, 130, 14823-14828.	2.0	3
118	Spectro-electrochemical setup for in situ and operando mechanistic studies on metal oxide electrode surfaces. Review of Scientific Instruments, 2020, 91, 084104.	1.3	3
119	Electron microscopy investigations of metal-support interaction effects in M/Y2O3 and M/ZrO2 thin films (M=Cu, Ni). Materials Chemistry and Physics, 2013, 143, 167-177.	4.0	2
120	Increasing Complexity Approach to the Fundamental Surface and Interface Chemistry on SOFC Anode Materials. Accounts of Chemical Research, 2020, 53, 1811-1821.	15.6	2
121	Frontispiz: Enhancing Electrochemical Water-Splitting Kinetics by Polarization-Driven Formation of Near-Surface Iron(0): An Inâ€…Situ XPS Study on Perovskite-Type Electrodes. Angewandte Chemie, 2015, 127, n/a-n/a.	2.0	0
122	Frontispiece: Enhancing Electrochemical Water-Splitting Kinetics by Polarization-Driven Formation of Near-Surface Iron(0): An Inâ€…Situ XPS Study on Perovskite-Type Electrodes. Angewandte Chemie - International Edition, 2015, 54, n/a-n/a.	13.8	0