

Roman Fasel

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217
papers

15,259
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59
h-index

119
g-index

231
ext. papers

17,659
ext. citations

9.6
avg, IF

6.38
L-index

#	Paper	IF	Citations
217	Atomically precise bottom-up fabrication of graphene nanoribbons. <i>Nature</i> , 2010 , 466, 470-3	50.4	2652
216	On-surface synthesis of graphene nanoribbons with zigzag edge topology. <i>Nature</i> , 2016 , 531, 489-92	50.4	859
215	Porous graphenes: two-dimensional polymer synthesis with atomic precision. <i>Chemical Communications</i> , 2009 , 6919-21	5.8	550
214	Graphene nanoribbon heterojunctions. <i>Nature Nanotechnology</i> , 2014 , 9, 896-900	28.7	443
213	Controlled synthesis of single-chirality carbon nanotubes. <i>Nature</i> , 2014 , 512, 61-4	50.4	424
212	Two-dimensional polymer formation on surfaces: insight into the roles of precursor mobility and reactivity. <i>Journal of the American Chemical Society</i> , 2010 , 132, 16669-76	16.4	407
211	Amplification of chirality in two-dimensional enantiomorphous lattices. <i>Nature</i> , 2006 , 439, 449-52	50.4	355
210	Surface-assisted cyclodehydrogenation provides a synthetic route towards easily processable and chemically tailored nanographenes. <i>Nature Chemistry</i> , 2011 , 3, 61-7	17.6	345
209	Electronic structure of atomically precise graphene nanoribbons. <i>ACS Nano</i> , 2012 , 6, 6930-5	16.7	339
208	On-Surface Synthesis of Atomically Precise Graphene Nanoribbons. <i>Advanced Materials</i> , 2016 , 28, 6222-34	31.4	320
207	Porous graphene as an atmospheric nanofilter. <i>Small</i> , 2010 , 6, 2266-71	11	284
206	Toward cove-edged low band gap graphene nanoribbons. <i>Journal of the American Chemical Society</i> , 2015 , 137, 6097-103	16.4	234
205	Superlubricity of graphene nanoribbons on gold surfaces. <i>Science</i> , 2016 , 351, 957-61	33.3	227
204	Engineering of robust topological quantum phases in graphene nanoribbons. <i>Nature</i> , 2018 , 560, 209-213	50.4	227
203	Short-channel field-effect transistors with 9-atom and 13-atom wide graphene nanoribbons. <i>Nature Communications</i> , 2017 , 8, 633	17.4	215
202	On-Surface Synthesis and Characterization of 9-Atom Wide Armchair Graphene Nanoribbons. <i>ACS Nano</i> , 2017 , 11, 1380-1388	16.7	196
201	Termini of bottom-up fabricated graphene nanoribbons. <i>Journal of the American Chemical Society</i> , 2013 , 135, 2060-3	16.4	182

200	Production and processing of graphene and related materials. <i>2D Materials</i> , 2020 , 7, 022001	5.9	179
199	Chirality transfer from single molecules into self-assembled monolayers. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 5178-81	16.4	174
198	Giant edge state splitting at atomically precise graphene zigzag edges. <i>Nature Communications</i> , 2016 , 7, 11507	17.4	160
197	Self-assembly of periodic bicomponent wires and ribbons. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 1814-8	16.4	150
196	Intraribbon heterojunction formation in ultranarrow graphene nanoribbons. <i>ACS Nano</i> , 2012 , 6, 2020-5	16.7	147
195	Fabrication of surface-supported low-dimensional polyimide networks. <i>Journal of the American Chemical Society</i> , 2008 , 130, 14054-5	16.4	146
194	Surface-supported 2D heterotriangulene polymers. <i>Chemical Communications</i> , 2011 , 47, 10239-41	5.8	131
193	Self-assembly and conformation of tetrapyrrolyl-porphyrin molecules on Ag(111). <i>Journal of Chemical Physics</i> , 2006 , 124, 194708	3.9	129
192	Exciton-dominated optical response of ultra-narrow graphene nanoribbons. <i>Nature Communications</i> , 2014 , 5, 4253	17.4	121
191	Topological frustration induces unconventional magnetism in a nanographene. <i>Nature Nanotechnology</i> , 2020 , 15, 22-28	28.7	121
190	Anisotropy of quasiparticle lifetimes and the role of disorder in graphite from ultrafast time-resolved photoemission spectroscopy. <i>Physical Review Letters</i> , 2001 , 87, 267402	7.4	111
189	C ₆₀ /corannulene on Cu(110): a surface-supported bistable buckyball-buckyball host-guest system. <i>Journal of the American Chemical Society</i> , 2008 , 130, 4767-71	16.4	103
188	Orientation of adsorbed C ₆₀ molecules determined via x-ray photoelectron diffraction. <i>Physical Review Letters</i> , 1996 , 76, 4733-4736	7.4	100
187	Cyclotrimerization of arylalkynes on Au(111). <i>Chemical Communications</i> , 2014 , 50, 11200-3	5.8	96
186	Fermi surface mapping with photoelectrons at UV energies. <i>Surface Science</i> , 1994 , 307-309, 917-921	1.8	95
185	Purely Armchair or Partially Chiral: Noncontact Atomic Force Microscopy Characterization of Dibromo-Bianthryl-Based Graphene Nanoribbons Grown on Cu(111). <i>ACS Nano</i> , 2016 , 10, 8006-11	16.7	86
184	Synthesis and Characterization of Extended Triangulene. <i>Journal of the American Chemical Society</i> , 2019 , 141, 10621-10625	16.4	85
183	On-Surface Growth Dynamics of Graphene Nanoribbons: The Role of Halogen Functionalization. <i>ACS Nano</i> , 2018 , 12, 74-81	16.7	85

- 182 Formation of a regular fullerene nanochain lattice. *Journal of Physical Chemistry B*, **2006**, 110, 21394-8 3.4 82
- 181 Charge-carrier dynamics in single-wall carbon nanotube bundles: a time-domain study. *Applied Physics A: Materials Science and Processing*, **2002**, 75, 449-465 2.6 82
- 180 Bottom-Up Synthesis of Metalated Carbyne. *Journal of the American Chemical Society*, **2016**, 138, 1106-9 16.4 79
- 179 Buckybowls on metal surfaces: symmetry mismatch and enantiomorphism of corannulene on Cu(110). *Angewandte Chemie - International Edition*, **2007**, 46, 8258-61 16.4 79
- 178 Conjugated heterotriangulene macrocycles by solution and surface-supported synthesis toward honeycomb networks. *Journal of the American Chemical Society*, **2013**, 135, 4550-7 16.4 78
- 177 Self-assembly of chiral molecular honeycomb networks on Au(111). *Journal of the American Chemical Society*, **2008**, 130, 8910-2 16.4 78
- 176 Bottom-Up Synthesis of Heteroatom-Doped Chiral Graphene Nanoribbons. *Journal of the American Chemical Society*, **2018**, 140, 9104-9107 16.4 77
- 175 Quantum Dots in Graphene Nanoribbons. *Nano Letters*, **2017**, 17, 4277-4283 11.5 74
- 174 Revealing the Electronic Structure of Silicon Intercalated Armchair Graphene Nanoribbons by Scanning Tunneling Spectroscopy. *Nano Letters*, **2017**, 17, 2197-2203 11.5 72
- 173 Chemical Vapor Deposition Synthesis and Terahertz Photoconductivity of Low-Band-Gap N = 9 Armchair Graphene Nanoribbons. *Journal of the American Chemical Society*, **2017**, 139, 3635-3638 16.4 69
- 172 Tailoring Bond Topologies in Open-Shell Graphene Nanostructures. *ACS Nano*, **2018**, 12, 11917-11927 16.7 69
- 171 Electronic band dispersion of graphene nanoribbons via Fourier-transformed scanning tunneling spectroscopy. *Physical Review B*, **2015**, 91, 3-3 68
- 170 Orientation of chiral heptahelicene C₃₀H₁₈ on copper surfaces: An x-ray photoelectron diffraction study. *Journal of Chemical Physics*, **2001**, 115, 1020-1027 3.9 67
- 169 Resolving Atomic Connectivity in Graphene Nanostructure Junctions. *Nano Letters*, **2015**, 15, 5185-90 11.5 66
- 168 Homochiral conglomerates and racemic crystals in two dimensions: tartaric acid on Cu(110). *Chemistry - A European Journal*, **2005**, 11, 4149-54 4.8 66
- 167 On-Surface Synthesis of Heptacene Organometallic Complexes. *Journal of the American Chemical Society*, **2017**, 139, 11658-11661 16.4 65
- 166 On-Surface Synthesis of BN-Substituted Heteroaromatic Networks. *ACS Nano*, **2015**, 9, 9228-35 16.7 64
- 165 On-surface light-induced generation of higher acenes and elucidation of their open-shell character. *Nature Communications*, **2019**, 10, 861 17.4 63

164	On-surface synthesis of a nitrogen-embedded buckyball with inverse Stone-Thrower-Wales topology. <i>Nature Communications</i> , 2018 , 9, 1714	17.4	63
163	Coverage and Enantiomeric Excess Dependent Enantiomorphism in Two-Dimensional Molecular Crystals. <i>Crystal Growth and Design</i> , 2008 , 8, 1890-1896	3.5	63
162	Coexistence of one- and two-dimensional supramolecular assemblies of terephthalic acid on Pd(111) due to self-limiting deprotonation. <i>Journal of Chemical Physics</i> , 2006 , 125, 184710	3.9	63
161	k-space mapping of majority and minority bands on the Fermi surface of Nickel below and above the Curie temperature. <i>Physical Review Letters</i> , 1996 , 76, 1150-1153	7.4	63
160	Angle-scanned photoelectron diffraction. <i>Surface Science</i> , 1995 , 331-333, 1002-1014	1.8	61
159	Two-dimensional separation of [7]helicene enantiomers on Cu(111). <i>Chirality</i> , 2001 , 13, 675-8	2.1	60
158	Binding and ordering of C60 on Pd(110): Investigations at the local and mesoscopic scale. <i>Journal of Chemical Physics</i> , 2001 , 115, 9001-9009	3.9	58
157	Local structure of c(2 x 2)-Na on Al(001): Experimental evidence for the coexistence of intermixing and on-surface adsorption. <i>Physical Review B</i> , 1994 , 50, 14516-14524	3.3	57
156	Determination of the absolute chirality of adsorbed molecules. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 2853-6	16.4	56
155	Microscopic origin of chiral shape induction in achiral crystals. <i>Nature Chemistry</i> , 2016 , 8, 326-30	17.6	53
154	Scanning tunneling microscopy and x-ray photoelectron diffraction investigation of C60 films on Cu(100). <i>Physical Review B</i> , 2003 , 67,	3.3	53
153	On-Surface Cyclization of ortho-Dihalotetracenes to Four- and Six-Membered Rings. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17617-17623	16.4	52
152	Theoretical analysis of the electronic structure of the stable and metastable c(2x2) phases of Na on Al(001): Comparison with angle-resolved ultraviolet photoemission spectra. <i>Physical Review B</i> , 1998 , 57, 15251-15260	3.3	52
151	Molecular imaging of polyimide formation. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 1209-14	3.6	51
150	Surface-Synthesized Graphene Nanoribbons for Room Temperature Switching Devices: Substrate Transfer and ex Situ Characterization. <i>ACS Applied Nano Materials</i> , 2019 , 2, 2184-2192	5.6	49
149	Chiral recognition in surface explosion. <i>Journal of the American Chemical Society</i> , 2004 , 126, 9176-7	16.4	49
148	Topological Defect-Induced Magnetism in a Nanographene. <i>Journal of the American Chemical Society</i> , 2020 , 142, 1147-1152	16.4	48
147	Open-Shell Nonbenzenoid Nanographenes Containing Two Pairs of Pentagonal and Heptagonal Rings. <i>Journal of the American Chemical Society</i> , 2019 , 141, 12011-12020	16.4	47

146	Chirality Transfer from Single Molecules into Self-Assembled Monolayers. <i>Angewandte Chemie</i> , 2003 , 115, 5336-5339	3.6	46
145	Heteroatom-Doped Perihexacene from a Double Helicene Precursor: On-Surface Synthesis and Properties. <i>Journal of the American Chemical Society</i> , 2017 , 139, 4671-4674	16.4	44
144	Complex interplay and hierarchy of interactions in two-dimensional supramolecular assemblies. <i>ACS Nano</i> , 2011 , 5, 457-69	16.7	44
143	Mapping the electronic surface potential of nanostructured surfaces. <i>Physical Review Letters</i> , 2009 , 102, 086807	7.4	44
142	X-ray photoelectron and Auger electron diffraction study of diamond and graphite surfaces. <i>Surface Science</i> , 1994 , 312, 131-142	1.8	44
141	Surface science at the PEARL beamline of the Swiss Light Source. <i>Journal of Synchrotron Radiation</i> , 2017 , 24, 354-366	2.4	43
140	Structure-dependent electrical properties of graphene nanoribbon devices with graphene electrodes. <i>Carbon</i> , 2019 , 146, 36-43	10.4	43
139	Collective All-Carbon Magnetism in Triangulene Dimers. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 12041-12047	16.4	43
138	The role of van der Waals interactions in surface-supported supramolecular networks. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 992-9	3.6	42
137	On-Surface Synthesis of Indenofluorene Polymers by Oxidative Five-Membered Ring Formation. <i>Journal of the American Chemical Society</i> , 2018 , 140, 3532-3536	16.4	40
136	Final-state scattering in angle-resolved ultraviolet photoemission from copper. <i>Physical Review B</i> , 1996 , 53, 10209-10216	3.3	40
135	High vacuum synthesis and ambient stability of bottom-up graphene nanoribbons. <i>Nanoscale</i> , 2017 , 9, 2785-2792	7.7	39
134	On-surface synthesis and characterization of individual polyacetylene chains. <i>Nature Chemistry</i> , 2019 , 11, 924-930	17.6	39
133	On-Surface Synthesis of a Nonplanar Porous Nanographene. <i>Journal of the American Chemical Society</i> , 2019 , 141, 7726-7730	16.4	39
132	Interplay between electron-electron interaction and electron-phonon coupling near the Fermi surface of $1T\text{-TaS}_2$. <i>Physical Review B</i> , 2000 , 62, 4277-4287	3.3	39
131	Surface chirality of CuO thin films. <i>Journal of the American Chemical Society</i> , 2006 , 128, 14103-8	16.4	36
130	On-Surface Synthesis of Antiaromatic and Open-Shell Indeno[2,1]fluorene Polymers and Their Lateral Fusion into Porous Ribbons. <i>Journal of the American Chemical Society</i> , 2019 , 141, 12346-12354	16.4	34
129	Evolution of the Rashba spin-orbit-split Shockley state on Ag/Pt(111). <i>Physical Review B</i> , 2011 , 83,	3.3	34

128	Photoelectron emission from the negative electron affinity caesiated natural diamond (100) surface. <i>Diamond and Related Materials</i> , 1998 , 7, 660-665	3.5	34
127	Coexisting inequivalent orientations of C60 on Ag(001). <i>Physical Review B</i> , 2001 , 63,	3.3	34
126	Bowl inversion of surface-adsorbed sumanene. <i>Journal of the American Chemical Society</i> , 2014 , 136, 13666-13671	6.4	33
125	Looking inside an endohedral fullerene: Inter- and intramolecular ordering of Dy ₃ N@C ₈₀ (Ih) on Cu(111). <i>Physical Review B</i> , 2009 , 80,	3.3	33
124	Tailoring low-dimensional organic semiconductor nanostructures. <i>Nano Letters</i> , 2009 , 9, 126-31	11.5	33
123	Unusual molecular orientation and frozen librational motion of C60 on Cu(110). <i>Physical Review B</i> , 1999 , 60, 4517-4520	3.3	33
122	Graphene Nanoribbons Derived from Zigzag Edge-Encased Poly(para-2,9-dibenzo[bc, kl]corononylene) Polymer Chains. <i>Journal of the American Chemical Society</i> , 2019 , 141, 2843-2846	16.4	32
121	Self-Assembly of Periodic Bicomponent Wires and Ribbons. <i>Angewandte Chemie</i> , 2007 , 119, 1846-1850	3.6	32
120	O adsorption and incipient oxidation of the Mg(0001) surface. <i>Physical Review B</i> , 2004 , 69,	3.3	32
119	An aromatic coupling motif for two-dimensional supramolecular architectures. <i>Chemical Communications</i> , 2008 , 4555-7	5.8	28
118	Adsorption of helical aromatic molecules: heptahelicene on Ni(). <i>Surface Science</i> , 2003 , 530, 195-202	1.8	28
117	Holographic interpretation of photoelectron diffraction. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1994 , 68, 1-18	1.7	28
116	Large magnetic exchange coupling in rhombus-shaped nanographenes with zigzag periphery. <i>Nature Chemistry</i> , 2021 , 13, 581-586	17.6	28
115	On-Surface Synthesis of Unsaturated Carbon Nanostructures with Regularly Fused Pentagon-Heptagon Pairs. <i>Journal of the American Chemical Society</i> , 2020 , 142, 10291-10296	16.4	26
114	Surface atomic structure of c(2x2)-Si on Cu(110). <i>Physical Review B</i> , 1997 , 55, 12896-12898	3.3	26
113	Angle-scanned photoemission: Fermi surface mapping and structural determination. <i>Surface Science</i> , 1998 , 402-404, 614-622	1.8	26
112	ALKALI-METAL ADSORPTION GEOMETRIES ON METAL SURFACES FROM PHOTOELECTRON-DIFFRACTION EXPERIMENTS. <i>Surface Review and Letters</i> , 1995 , 02, 359-386	1.1	26
111	C60 on strain-relief patterns of AgPt(111): Film orientation governed by template superstructure. <i>Physical Review B</i> , 2006 , 74,	3.3	25

110	Coupled Spin States in Armchair Graphene Nanoribbons with Asymmetric Zigzag Edge Extensions. <i>Nano Letters</i> , 2020 , 20, 6429-6436	11.5	25
109	Massive Dirac Fermion Behavior in a Low Bandgap Graphene Nanoribbon Near a Topological Phase Boundary. <i>Advanced Materials</i> , 2020 , 32, e1906054	24	24
108	Fabrication of a well-ordered nanohole array stable at room temperature. <i>Nano Letters</i> , 2008 , 8, 2035-40	11.5	23
107	Doping-induced reorientation of C60 molecules on Ag(111). <i>Physical Review B</i> , 2005 , 72,	3.3	23
106	On-Surface Synthesis and Characterization of Triply Fused Porphyrin-Graphene Nanoribbon Hybrids. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 1334-1339	16.4	23
105	On-Surface Hydrogen-Induced Covalent Coupling of Polycyclic Aromatic Hydrocarbons via a Superhydrogenated Intermediate. <i>Journal of the American Chemical Society</i> , 2019 , 141, 3550-3557	16.4	23
104	Controlled Quantum Dot Formation in Atomically Engineered Graphene Nanoribbon Field-Effect Transistors. <i>ACS Nano</i> , 2020 , 14, 5754-5762	16.7	22
103	Site- and orientation-selective anchoring of a prototypical molecular building block. <i>Journal of the American Chemical Society</i> , 2007 , 129, 5007-11	16.4	22
102	Building Pentagons into Graphenic Structures by On-Surface Polymerization and Aromatic Cyclodehydrogenation of Phenyl-Substituted Polycyclic Aromatic Hydrocarbons. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 17588-17593	3.8	21
101	Positional and Orientational Templating of C60 Molecules on the Ag/Pt(111) Strain-Relief Pattern. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 5292-5299	3.8	21
100	Observation of fractional edge excitations in nanographene spin chains. <i>Nature</i> , 2021 , 598, 287-292	50.4	21
99	Direct structural information from X-ray photoelectron diffraction: intermixing and on-surface adsorption of Na on Al surfaces. <i>Surface Science</i> , 1995 , 331-333, 80-87	1.8	20
98	Chiral Biphenyldicarboxylic Acid Networks Stabilized by Hydrogen Bonding. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 6646-6649	3.8	19
97	Growth of Ag on Cu(001) studied by full-hemispherical X-ray photoelectron diffraction. <i>Surface Science</i> , 1997 , 373, 153-172	1.8	19
96	Surface-state dispersion of hydrogenated and hydrogen-free diamond (100) surfaces determined by angle-resolved photoemission. <i>Surface Science</i> , 1997 , 393, L77-L83	1.8	19
95	On-Surface Synthesis and Characterization of Acene-Based Nanoribbons Incorporating Four-Membered Rings. <i>Chemistry - A European Journal</i> , 2019 , 25, 12074-12082	4.8	18
94	Combinatorial design of molecular seeds for chirality-controlled synthesis of single-walled carbon nanotubes. <i>Nature Communications</i> , 2019 , 10, 3278	17.4	18
93	Stability of edge magnetism in functionalized zigzag graphene nanoribbons. <i>Carbon</i> , 2017 , 124, 123-132	10.4	18

92	Stabilization of bimolecular islands on ultrathin NaCl films by a vicinal substrate. <i>Surface Science</i> , 2009 , 603, 2294-2299	1.8	18
91	Living on the edge: A nanographene molecule adsorbed across gold step edges. <i>Surface Science</i> , 2008 , 602, L84-L88	1.8	18
90	Direct structure determination of a composite double-layer surface alloy by x-ray photoelectron diffraction: p(2 x 2)-Na/Al(111). <i>Physical Review B</i> , 1995 , 52, R2313-R2316	3.3	18
89	Mg on Pd(111): The formation of local order observed by photoelectron diffraction. <i>Physical Review Letters</i> , 1993 , 70, 1493-1496	7.4	18
88	Subphthalocyanine-based nanocrystals. <i>Chemical Communications</i> , 2011 , 47, 9986-8	5.8	17
87	Self-assembly of extended polycyclic aromatic hydrocarbons on Cu111. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 11253-8	3.4	17
86	Temperature dependence of electron-to-lattice energy transfer in single-wall carbon nanotube bundles. <i>Journal of Nanoscience and Nanotechnology</i> , 2003 , 3, 145-9	1.3	17
85	Mg(0001) surface oxidation: A two-dimensional oxide phase. <i>Physical Review B</i> , 2004 , 69,	3.3	17
84	Probing optical excitations in chevron-like armchair graphene nanoribbons. <i>Nanoscale</i> , 2017 , 9, 18326-18333	1.7	16
83	Large-Cavity Coronoids with Different Inner and Outer Edge Structures. <i>Journal of the American Chemical Society</i> , 2020 , 142, 12046-12050	16.4	16
82	Atomistic insight into the adsorption site selectivity of stepped Au(111) surfaces. <i>Physical Review B</i> , 2010 , 82,	3.3	16
81	Hydrogen-bonding fingerprints in electronic States of two-dimensional supramolecular assemblies. <i>ChemPhysChem</i> , 2009 , 10, 2943-6	3.2	16
80	Template-Directed Molecular Nanostructures on the Ag/Pt(111) Dislocation Network. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 8407-8411	3.8	16
79	Surface alloy formation and interdiffusion in : a combined low-energy electron diffraction and X-ray photoelectron diffraction study. <i>Surface Science</i> , 1997 , 374, 104-116	1.8	16
78	Structure of Si atomic chains grown on the Si/Cu(110) c(2x2) surface alloy. <i>Physical Review B</i> , 2001 , 63,	3.3	16
77	A Universal Length-Dependent Vibrational Mode in Graphene Nanoribbons. <i>ACS Nano</i> , 2019 , 13, 13083-13091	1.7	15
76	Modulation of charge transport properties of reduced graphene oxide by submonolayer physisorption of an organic dye. <i>Organic Electronics</i> , 2013 , 14, 1787-1792	3.5	15
75	Bestimmung der absoluten Konfiguration adsorbierter Moleküle. <i>Angewandte Chemie</i> , 2004 , 116, 2913-2917	3.17	15

74	Experimental evidence for kinetically determined intermixed Volmer-Weber growth in thin-film deposition of Au on Ag(110). <i>Physical Review B</i> , 1999 , 59, 15975-15989	3.3	15
73	Electronic structure of high- and low- temperature $c(2 \times 2)$ -Na/Al(001) phases from angle-scanned ultraviolet photoemission. <i>Physical Review B</i> , 1996 , 54, 5893-5900	3.3	15
72	On-Surface Synthesis of Non-Benzenoid Nanographenes by Oxidative Ring-Closure and Ring-Rearrangement Reactions. <i>Journal of the American Chemical Society</i> , 2020 , 142, 13565-13572	16.4	15
71	Synthesis and characterization of [7]triangulene. <i>Nanoscale</i> , 2021 , 13, 1624-1628	7.7	15
70	Electronic characterization of silicon intercalated chevron graphene nanoribbons on Au(111). <i>Chemical Communications</i> , 2018 , 54, 1619-1622	5.8	14
69	Stable Ferromagnetism and doping-induced half-metallicity in asymmetric graphene nanoribbons. <i>Physical Review B</i> , 2012 , 85,	3.3	14
68	Monitoring the formation of interface-confined mixture by photoelectron spectroscopy. <i>Physical Review B</i> , 2012 , 85,	3.3	14
67	Monolayer-resolved x-ray-excited Auger-electron diffraction from single-plane emission in GaAs. <i>Physical Review B</i> , 1993 , 48, 11838-11845	3.3	14
66	On-surface synthesis of polyazulene with 2,6-connectivity. <i>Chemical Communications</i> , 2019 , 55, 13466-13469	3.4	14
65	Optimized Substrates and Measurement Approaches for Raman Spectroscopy of Graphene Nanoribbons. <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1900343	1.3	13
64	Korbffmige Kohlenwasserstoffe auf Metalloberflchen: Symmetrieunvertrglichkeit und Enantiomorphie von Corannulen auf Cu(110). <i>Angewandte Chemie</i> , 2007 , 119, 8406-8409	3.6	13
63	Formation of Al ₄ Cu ₉ on the 5 fold Surface of Icosahedral AlPdMn. <i>Advanced Engineering Materials</i> , 2005 , 7, 392-396	3.5	13
62	Synthesis and Characterization of Degradation-Resistant Cu@CuPd Nanowire Catalysts for the Efficient Production of Formate and CO from CO ₂ . <i>ChemElectroChem</i> , 2019 , 6, 3189-3198	4.3	12
61	Optical Investigation of On-Surface Synthesized Armchair Graphene Nanoribbons. <i>Physica Status Solidi (B): Basic Research</i> , 2017 , 254, 1700223	1.3	12
60	Inducing Open-Shell Character in Porphyrins through Surface-Assisted Phenalenyl Extension. <i>Journal of the American Chemical Society</i> , 2020 , 142, 18109-18117	16.4	12
59	Impact of heterocirculene molecular symmetry upon two-dimensional crystallization. <i>Scientific Reports</i> , 2014 , 4, 5415	4.9	11
58	On-Surface Synthesis of Cumulene-Containing Polymers via Two-Step Dehalogenative Homocoupling of Dibromomethylene-Functionalized Tribenzoazulene. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 13281-13287	16.4	11
57	Negatively Curved Warped Nanographene Self-Assembled on Metal Surfaces. <i>Journal of the American Chemical Society</i> , 2019 , 141, 13158-13164	16.4	11

56	A simple approach for describing metal-supported cyclohexaphenylene dehydrogenation. <i>European Physical Journal B</i> , 2010 , 75, 65-70	1.2	11
55	Optical Imaging and Spectroscopy of Atomically Precise Armchair Graphene Nanoribbons. <i>Nano Letters</i> , 2020 , 20, 1124-1130	11.5	11
54	On-Surface Synthesis of Oligo(indenoindene). <i>Journal of the American Chemical Society</i> , 2020 , 142, 12925-12929	11.2	11
53	Band Gap of Atomically Precise Graphene Nanoribbons as a Function of Ribbon Length and Termination. <i>ChemPhysChem</i> , 2019 , 20, 2348-2353	3.2	10
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- 2 On-surface synthesis and atomic scale characterization of unprotected indenofluorene polymers.
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