

Francesco Allegretti

List of Publications by Year in descending order

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115
papers

3,222
citations

136950

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51
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117
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117
docs citations

117
times ranked

3726
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Abiotic Formation of an Amide Bond via Surface-Supported Direct Carboxyl-Amine Coupling. <i>Angewandte Chemie - International Edition</i> , 2022, 61, . | 13.8 | 9 |
| 2 | Operando Study of Structure Degradation in Solid-State Dye-Sensitized Solar Cells with a TiO_2 Photoanode Having Ordered Mesopore Arrays. <i>Solar Rrl</i> , 2022, 6, . | 5.8 | 4 |
| 3 | Tunable Interface of Ruthenium Porphyrins and Silver. <i>Journal of Physical Chemistry C</i> , 2021, 125, 3215-3224. | 3.1 | 14 |
| 4 | Assembly and Manipulation of a Prototypical N-Heterocyclic Carbene with a Metalloporphyrin Pedestal on a Solid Surface. <i>Journal of the American Chemical Society</i> , 2021, 143, 4433-4439. | 13.7 | 18 |
| 5 | Tailoring Ordered Mesoporous Titania Films via Introducing Germanium Nanocrystals for Enhanced Electron Transfer Photoanodes for Photovoltaic Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2102105. | 14.9 | 9 |
| 6 | Conformational Control of Chemical Reactivity for Surface-Confined Ru-Porphyrins. <i>Angewandte Chemie</i> , 2021, 133, 16697-16703. | 2.0 | 2 |
| 7 | Conformational Control of Chemical Reactivity for Surface-Confined Ru-Porphyrins. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16561-16567. | 13.8 | 12 |
| 8 | Actinide Coordination Chemistry on Surfaces: Synthesis, Manipulation, and Properties of Thorium Bis(porphyrinato) Complexes. <i>Journal of the American Chemical Society</i> , 2021, 143, 14581-14591. | 13.7 | 9 |
| 9 | Rotation in an Enantiospecific Self-Assembled Array of Molecular Raffle Wheels. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26932-26938. | 13.8 | 5 |
| 10 | The Flexible On-Surface Self-Assembly of a Low-Symmetry Mabiq Ligand: An Unconventional Metal-Assisted Phase Transformation on Ag(111). <i>Journal of Physical Chemistry C</i> , 2021, 125, 23178-23191. | 3.1 | 2 |
| 11 | Modular Assembly of Vibrationally and Electronically Coupled Rhenium Bipyridine Carbonyl Complexes on Silicon. <i>Journal of the American Chemical Society</i> , 2021, 143, 19505-19516. | 13.7 | 4 |
| 12 | Quantitative Insights into the Adsorption Structure of Diindeno[1,2- <i>a,c</i>];1,2,2,2-trifluorene-5,10,15-trione (Truxenone) on a Cu(111) Surface Using X-ray Standing Waves. <i>ACS Omega</i> , 2021, 6, 34525-34531. | 3.5 | 0 |
| 13 | Internal nanoscale architecture and charge carrier dynamics of wide bandgap non-fullerene bulk heterojunction active layers in organic solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 23628-23636. | 10.3 | 12 |
| 14 | Layer-by-Layer Epitaxy of Porphyrin-Ligand Fe(II)-Fe(III) Nanoarchitectures for Advanced Metal-Organic Framework Growth. <i>ACS Applied Nano Materials</i> , 2020, 3, 11752-11759. | 5.0 | 12 |
| 15 | Stabilisation of tri-valent ions with a vacant coordination site at a corrole-metal interface. <i>Chemical Communications</i> , 2020, 56, 11219-11222. | 4.1 | 3 |
| 16 | Validation of the inverted adsorption structure for free-base tetraphenyl porphyrin on Cu(111). <i>Chemical Communications</i> , 2020, 56, 3681-3684. | 4.1 | 11 |
| 17 | Probing structural changes upon carbon monoxide coordination to single metal adatoms. <i>Journal of Chemical Physics</i> , 2020, 152, 051102. | 3.0 | 4 |
| 18 | On-Surface Synthesis of Nonmetal Porphyrins. <i>Journal of the American Chemical Society</i> , 2020, 142, 1871-1881. | 13.7 | 19 |

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|----|--|------|-----------|
| 19 | Quantum Tunneling Mediated Interfacial Synthesis of a Benzofuran Derivative. <i>Angewandte Chemie</i> , 2019, 131, 11407-11412. | 2.0 | 0 |
| 20 | Attosecond Dynamics of s -Band Photoexcitation. <i>Physical Review Letters</i> , 2019, 123, 176801. | 7.8 | 9 |
| 21 | Amphiphilic diblock copolymer-mediated structure control in nanoporous germanium-based thin films. <i>Nanoscale</i> , 2019, 11, 2048-2055. | 5.6 | 10 |
| 22 | Spatial decoupling of macrocyclic metal-organic complexes from a metal support: a 4-fluorothiophenol self-assembled monolayer as a thermally removable spacer. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 10992-11003. | 2.8 | 10 |
| 23 | Quantum Tunneling Mediated Interfacial Synthesis of a Benzofuran Derivative. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11285-11290. | 13.8 | 3 |
| 24 | Synthesizing Highly Regular Single-Layer Alkynyl-Silver Networks at the Micrometer Scale via Gas-Mediated Surface Reaction. <i>Journal of the American Chemical Society</i> , 2019, 141, 5087-5091. | 13.7 | 30 |
| 25 | Local adsorption structure and bonding of porphine on Cu(111) before and after self-metalation. <i>Journal of Chemical Physics</i> , 2019, 150, 094702. | 3.0 | 11 |
| 26 | The Role of Kinetics versus Thermodynamics in Surface-Assisted Ullmann Coupling on Gold and Silver Surfaces. <i>Journal of the American Chemical Society</i> , 2019, 141, 4824-4832. | 13.7 | 83 |
| 27 | Bottom-Up Fabrication of a Metal-Supported Oxo-Metal Porphyrin. <i>Journal of Physical Chemistry C</i> , 2019, 123, 31011-31025. | 3.1 | 12 |
| 28 | Bisphenol A and Diethylstilbestrol on Cu(111): On-Surface Polymerization Initiated by Hydroxy-Directed <i>Ortho</i> C-H Bond Activation. <i>Journal of Physical Chemistry C</i> , 2019, 123, 1354-1361. | 3.1 | 6 |
| 29 | Identifying On-Surface Site-Selective Chemical Conversions by Theory-Aided NEXAFS Spectroscopy: The Case of Free-Base Corroles on Ag(111). <i>Chemistry - A European Journal</i> , 2018, 24, 6787-6797. | 3.3 | 8 |
| 30 | Functionalized Graphdiyne Nanowires: On-Surface Synthesis and Assessment of Band Structure, Flexibility, and Information Storage Potential. <i>Small</i> , 2018, 14, e1704321. | 10.0 | 38 |
| 31 | Probing the geometry of copper and silver adatoms on magnetite: quantitative experiment versus theory. <i>Nanoscale</i> , 2018, 10, 2226-2230. | 5.6 | 21 |
| 32 | Adsorption Conformation and Lateral Registry of Cobalt Porphine on Cu(111). <i>Journal of Physical Chemistry C</i> , 2018, 122, 5452-5461. | 3.1 | 14 |
| 33 | Isomerism control of diethylstilbestrol by metal surface induced O-H cleavage. <i>Chemical Communications</i> , 2018, 54, 12495-12498. | 4.1 | 11 |
| 34 | Quantitative determination of a model organic/insulator/metal interface structure. <i>Nanoscale</i> , 2018, 10, 21971-21977. | 5.6 | 15 |
| 35 | Unraveling the Oxidation and Spin State of Mn-Corrole through X-ray Spectroscopy and Quantum Chemical Analysis. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6412-6420. | 4.6 | 14 |
| 36 | Direct measurement of Ni incorporation into Fe ₃ O ₄ (001). <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 16469-16476. | 2.8 | 20 |

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|----|--|------|-----------|
| 37 | On-Surface Site-Selective Cyclization of Corrole Radicals. ACS Nano, 2017, 11, 3383-3391. | 14.6 | 24 |
| 38 | X-ray Spectroscopy of Thin Film Free-Base Corroles: A Combined Theoretical and Experimental Characterization. Journal of Physical Chemistry C, 2017, 121, 2192-2200. | 3.1 | 14 |
| 39 | <i>N</i> -Heterocyclic carbenes on close-packed coinage metal surfaces: bis-carbene metal adatom bonding scheme of monolayer films on Au, Ag and Cu. Chemical Science, 2017, 8, 8301-8308. | 7.4 | 87 |
| 40 | Corrugation in the Weakly Interacting Hexagonal-BN/Cu(111) System: Structure Determination by Combining Noncontact Atomic Force Microscopy and X-ray Standing Waves. ACS Nano, 2017, 11, 9151-9161. | 14.6 | 56 |
| 41 | Correction to <i>In Vacuo</i> Porphyrin Metalation on Ag(111) via Chemical Vapor Deposition of Ru ₃ (CO) ₁₂ : Mechanistic Insights. Journal of Physical Chemistry C, 2017, 121, 12503-12503. | 3.1 | 1 |
| 42 | Surface-Guided Formation of an Organocobalt Complex. Angewandte Chemie, 2016, 128, 5848-5853. | 2.0 | 5 |
| 43 | Formation of a thermally stable bilayer of coadsorbed intact and deprotonated thymine exploiting the surface corrugation of rutile TiO ₂ (110). Physical Chemistry Chemical Physics, 2016, 18, 20433-20442. | 2.8 | 4 |
| 44 | Toward interfacing organic semiconductors with ferromagnetic transition metal substrates: enhanced stability via carboxylate anchoring. Chemical Communications, 2016, 52, 9805-9808. | 4.1 | 13 |
| 45 | Direct quantitative identification of the surface trans-effect. Chemical Science, 2016, 7, 5647-5656. | 7.4 | 51 |
| 46 | <i>In Vacuo</i> Porphyrin Metalation on Ag(111) via Chemical Vapor Deposition of Ru ₃ (CO) ₁₂ : Mechanistic Insights. Journal of Physical Chemistry C, 2016, 120, 8751-8758. | 3.1 | 17 |
| 47 | Structure of a Model Dye/Titania Interface: Geometry of Benzoate on Rutile-TiO ₂ (110). <i>J. Phys. Chem. C</i> , 2016, 120, 10784-10791. | 3.1 | 14 |
| 48 | Surface-Guided Formation of an Organocobalt Complex. Angewandte Chemie - International Edition, 2016, 55, 5754-5759. | 13.8 | 20 |
| 49 | <i>In vacuo</i> interfacial tetrapyrrole metallation. Chemical Society Reviews, 2016, 45, 1629-1656. | 38.1 | 97 |
| 50 | Synthesis of Pyrene-Fused Pyrazaacenes on Metal Surfaces: Toward One-Dimensional Conjugated Nanostructures. ACS Nano, 2016, 10, 1033-1041. | 14.6 | 60 |
| 51 | Dynamics of Spatially Confined Bisphenol A Trimers in a Unimolecular Network on Ag(111). Nano Letters, 2016, 16, 1884-1889. | 9.1 | 21 |
| 52 | Surface-Assisted Cyclodehydrogenation; Break the Symmetry, Enhance the Selectivity. Chemistry - A European Journal, 2015, 21, 12285-12290. | 3.3 | 57 |
| 53 | Thiolate-Bonded Self-Assembled Monolayers on Ni(111): Bonding Strength, Structure, and Stability. Journal of Physical Chemistry C, 2015, 119, 15455-15468. | 3.1 | 21 |
| 54 | Immobilised molecular catalysts and the role of the supporting metal substrate. Chemical Communications, 2015, 51, 9483-9486. | 4.1 | 29 |

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|----|---|------|-----------|
| 55 | Unusual Deprotonated Alkynyl Hydrogen Bonding in Metal-Supported Hydrocarbon Assembly. <i>Journal of Physical Chemistry C</i> , 2015, 119, 9669-9679. | 3.1 | 39 |
| 56 | Polyphenylsilole multilayers – an insight from X-ray electron spectroscopy and density functional theory. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 31117-31124. | 2.8 | 5 |
| 57 | Self-Assembly and Chemical Modifications of Bisphenol A on Cu(111): Interplay Between Ordering and Thermally Activated Stepwise Deprotonation. <i>ACS Nano</i> , 2014, 8, 207-215. | 14.6 | 31 |
| 58 | Temperature-dependent templated growth of porphine thin films on the (111) facets of copper and silver. <i>Journal of Chemical Physics</i> , 2014, 141, 144703. | 3.0 | 29 |
| 59 | Surface-assisted Dehydrogenative Homocoupling of Porphine Molecules. <i>Journal of the American Chemical Society</i> , 2014, 136, 9346-9354. | 13.7 | 140 |
| 60 | Surface structure of nickel oxide layers on a Rh(111) surface. <i>Surface Science</i> , 2013, 611, 86-93. | 1.9 | 19 |
| 61 | How Surface Bonding and Repulsive Interactions Cause Phase Transformations: Ordering of a Prototype Macrocyclic Compound on Ag(111). <i>ACS Nano</i> , 2013, 7, 3139-3149. | 14.6 | 85 |
| 62 | Self-Terminating Protocol for an Interfacial Complexation Reaction <i>in Vacuo</i> by Metal–Organic Chemical Vapor Deposition. <i>ACS Nano</i> , 2013, 7, 4520-4526. | 14.6 | 41 |
| 63 | Orbital anisotropy in paramagnetic manganese oxide nanostripes. <i>Physical Review B</i> , 2013, 87, . | 3.2 | 4 |
| 64 | Investigating the molecule-substrate interaction of prototypic tetrapyrrole compounds: Adsorption and self-metalation of porphine on Cu(111). <i>Journal of Chemical Physics</i> , 2013, 138, 154710. | 3.0 | 64 |
| 65 | Water does partially dissociate on the perfect TiO ₂ (110) surface: A quantitative structure determination. <i>Physical Review B</i> , 2012, 86, . | 3.2 | 60 |
| 66 | Visibility of TiO ₂ (110)(1 $\bar{1}$) bridging oxygen in core level photoelectron spectroscopy. <i>Physical Review B</i> , 2012, 85, . | 3.2 | 3 |
| 67 | Homo-coupling of terminal alkynes on a noble metal surface. <i>Nature Communications</i> , 2012, 3, 1286. | 12.8 | 350 |
| 68 | Chemical Transformations Drive Complex Self-Assembly of Uracil on Close-Packed Coinage Metal Surfaces. <i>ACS Nano</i> , 2012, 6, 2477-2486. | 14.6 | 55 |
| 69 | Deformed Surface Oxides: Uncommon Structure of a (6 $\bar{1}$) NiO Surface Oxide on Rh(111). <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 186-190. | 4.6 | 26 |
| 70 | Orbital-Symmetry-Dependent Electron Transfer through Molecules Assembled on Metal Substrates. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 436-440. | 4.6 | 35 |
| 71 | Low Dimensionality and Epitaxial Stabilization in Metal-Supported Oxide Nanostructures: Mn _x O _y on Pd(100) Mn _x O _y . <i>Springer Series in Materials Science</i> , 2012, , 209-237. | 0.6 | 0 |
| 72 | Tailor-made ultrathin manganese oxide nanostripes: – magic widths™ on Pd(111) terraces. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 042001. | 1.8 | 7 |

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|----|--|-----|-----------|
| 73 | <sc>Cysteine on Ag(111): A Combined STM and X-ray Spectroscopy Study of Anchorage and Deprotonation. Journal of Physical Chemistry C, 2012, 116, 20356-20362. | 3.1 | 75 |
| 74 | Metamorphosis of ultrathin Ni oxide nanostructures on Ag(100). Physical Review B, 2011, 84, . | 3.2 | 24 |
| 75 | The two-dimensional cobalt oxide (9 Å ⁻²) phase on Pd(100). Journal of Chemical Physics, 2011, 134, 184706. | 3.0 | 24 |
| 76 | Strained c(4Å ⁻²) CoO(100)-like monolayer on Pd(100): Experiment and theory. Surface Science, 2010, 604, 529-534. | 1.9 | 27 |
| 77 | One-Dimensional Oxide-Metal Hybrid Structures: Site-Specific Enhanced Reactivity for CO Oxidation. ChemPhysChem, 2010, 11, 2506-2509. | 2.1 | 20 |
| 78 | Atomic engineering of oxide nanostructure superlattices. Surface Science, 2010, 604, L43-L47. | 1.9 | 14 |
| 79 | Oxygen adsorption on stepped Pd(100) surfaces. Surface Science, 2010, 604, 1813-1819. | 1.9 | 18 |
| 80 | Cobalt oxide nanolayers on Pd(100): The thickness-dependent structural evolution. Surface Science, 2010, 604, 2002-2011. | 1.9 | 38 |
| 81 | Oxide-Metal Nanowires by Oxidation of a One-Dimensional Mn [*] Pd Alloy: Stability and Reactivity. Langmuir, 2010, 26, 16474-16480. | 3.5 | 6 |
| 82 | Low-dimensional oxide nanostructures on metals: Hybrid systems with novel properties. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2010, 28, 1-16. | 1.2 | 95 |
| 83 | Structural and vibrational properties of two-dimensional Mn_xO_{4x} on Pd(100): Experiments and density functional theory calculations. Physical Review B, 2009, 79, . | 3.2 | 42 |
| 84 | Two-dimensional manganese oxide nanolayers on Pd(100): the surface phase diagram. Journal of Physics Condensed Matter, 2009, 21, 134008. | 1.8 | 35 |
| 85 | Interplay between magnetic, electronic, and vibrational effects in monolayer Mn ₃ O ₄ grown on Pd(100). Journal of Chemical Physics, 2009, 130, 124707. | 3.0 | 32 |
| 86 | The local structure of SO ₂ and SO ₃ on Ni(111): A scanned-energy mode photoelectron diffraction study. Surface Science, 2009, 603, 2062-2073. | 1.9 | 5 |
| 87 | Adsorption and Dissociation of CO on Bare and Ni-Decorated Stepped Rh(553) Surfaces. Journal of Physical Chemistry C, 2009, 113, 942-949. | 3.1 | 39 |
| 88 | The (100)→(111) Transition in Epitaxial Manganese Oxide Nanolayers. Springer Proceedings in Physics, 2009, , 163-170. | 0.2 | 1 |
| 89 | The adsorption structure of furan on Pd(111). Surface Science, 2008, 602, 2524-2531. | 1.9 | 39 |
| 90 | Growth of cobalt on a VO(111) surface: Template, surfactant or encapsulant role of the oxide nanolayer?. Surface Science, 2008, 602, 2666-2674. | 1.9 | 15 |

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|-----|---|-----|-----------|
| 91 | A structural study of a C ₃ H ₃ species coadsorbed with CO on Pd(111). Surface Science, 2008, 602, 2743-2751. | 1.9 | 9 |
| 92 | The local adsorption geometry of benzenethiolate on Cu(100). Surface Science, 2008, 602, 2453-2462. | 1.9 | 16 |
| 93 | The local structure of OH species on the V ₂ O ₃ (0001) surface: A scanned-energy mode photoelectron diffraction study. Surface Science, 2008, 602, 1267-1279. | 1.9 | 13 |
| 94 | Growth and Oxidation of Ni Nanostructures on Stepped Rh Surfaces. Journal of Physical Chemistry C, 2008, 112, 19272-19278. | 3.1 | 24 |
| 95 | Formation of Mn_3O_4 on MnO(001): Surface and interface structural stability. Physical Review B, 2007, 76, . | 3.2 | 62 |
| 96 | Photoelectron diffraction investigation of the structure of the clean TiO ₂ (110)(1 $\bar{1}$ -1) surface. Physical Review B, 2007, 75, . | 3.2 | 23 |
| 97 | Epitaxial stabilization of MnO(111) overlayers on a Pd(100) surface. Physical Review B, 2007, 75, . | 3.2 | 47 |
| 98 | Molecule-metal interaction of pentacene on copper vicinal surfaces. Surface Science, 2007, 601, 2603-2606. | 1.9 | 37 |
| 99 | The formation of sharp NiO(100)-cobalt interfaces. Surface Science, 2007, 601, L73-L76. | 1.9 | 14 |
| 100 | The structure of the V ₂ O ₃ (0001) surface: A scanned-energy mode photoelectron diffraction study. Surface Science, 2007, 601, 3350-3360. | 1.9 | 16 |
| 101 | Quantitative determination of the local structure of thymine on Cu(110) using scanned-energy mode photoelectron diffraction. Surface Science, 2007, 601, 3611-3622. | 1.9 | 38 |
| 102 | The adsorption of CCl ₄ on Ag(111): Carbene and CC bond formation. Surface Science, 2006, 600, 241-248. | 1.9 | 6 |
| 103 | Quantitative determination of the local structure of H ₂ O on TiO ₂ (110) using scanned-energy mode photoelectron diffraction. Surface Science, 2006, 600, 1487-1496. | 1.9 | 34 |
| 104 | Structural characterisation of ultra-thin VO _x films on TiO ₂ (110). Surface Science, 2006, 600, 4813-4824. | 1.9 | 11 |
| 105 | Can circular dichroism in core-level photoemission provide a spectral fingerprint of adsorbed chiral molecules?. New Journal of Physics, 2005, 7, 109-109. | 2.9 | 8 |
| 106 | Self-assembly of an aromatic thiolate on Cu(100): The local adsorption site. Surface Science, 2005, 598, 253-262. | 1.9 | 15 |
| 107 | Molecular orientation of 2-mercaptobenzoxazole adsorbed on Cu(100) surface. Surface Science, 2005, 578, 136-141. | 1.9 | 13 |
| 108 | Adsorption Bond Length for H ₂ O on TiO ₂ (110): A Key Parameter for Theoretical Understanding. Physical Review Letters, 2005, 95, 226104. | 7.8 | 110 |

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|-----|--|-----|-----------|
| 109 | Circular Dichroism in Core Level Photoemission from an Adsorbed Chiral Molecule. <i>Physical Review Letters</i> , 2004, 92, 236103. | 7.8 | 30 |
| 110 | HREELS study of the adsorption mechanism and orientational order of 2-mercaptobenzoxazole on Cu(100). <i>Surface Science</i> , 2003, 539, 63-71. | 1.9 | 21 |
| 111 | Cu(100) surface: High-resolution experimental and theoretical band mapping. <i>Physical Review B</i> , 2003, 68, . | 3.2 | 37 |
| 112 | Electronic band states of long-range ordered aromatic thione molecules assembled on Cu(100). <i>Physical Review B</i> , 2002, 66, . | 3.2 | 28 |
| 113 | Growth of 2-mercaptobenzoxazole on Cu() surface: chemisorbed and physisorbed phases. <i>Surface Science</i> , 2002, 507-510, 7-11. | 1.9 | 15 |
| 114 | Study of Atomic Motions in EuBa ₂ Cu ₃ O ₇ δ by Mössbauer and EXAFS Spectroscopies. <i>Journal of Superconductivity and Novel Magnetism</i> , 2001, 14, 675-681. | 0.5 | 4 |
| 115 | Abiotic Formation of Amide Bond via Surface-Supported Direct Carboxyl-Amine Coupling. <i>Angewandte Chemie</i> , 0, , . | 2.0 | 0 |