

Markus Lackinger

List of Publications by Year in descending order

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84
papers

5,960
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61857

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times ranked

3950
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Self-Assembled Two-Dimensional Molecular Host-Guest Architectures From Trimesic Acid. <i>Single Molecules</i> , 2002, 3, 25-31. | 1.7 | 373 |
| 2 | Surface mediated synthesis of 2D covalent organic frameworks: 1,3,5-tris(4-bromophenyl)benzene on graphite(001), Cu(111), and Ag(110). <i>Chemical Communications</i> , 2009, , 4456. | 2.2 | 300 |
| 3 | Self-Assembly of Trimesic Acid at the Liquid-Solid Interface: A Study of Solvent-Induced Polymorphism. <i>Langmuir</i> , 2005, 21, 4984-4988. | 1.6 | 292 |
| 4 | Incorporation and Manipulation of Coronene in an Organic Template Structure. <i>Langmuir</i> , 2004, 20, 9403-9407. | 1.6 | 233 |
| 5 | Reversible Phase Transitions in Self-Assembled Monolayers at the Liquid-Solid Interface: Temperature-Controlled Opening and Closing of Nanopores. <i>Journal of the American Chemical Society</i> , 2010, 132, 5084-5090. | 6.6 | 223 |
| 6 | Synthesis of Well-Ordered COF Monolayers: Surface Growth of Nanocrystalline Precursors versus Direct On-Surface Polycondensation. <i>ACS Nano</i> , 2011, 5, 9737-9745. | 7.3 | 211 |
| 7 | Large Area Synthesis of a Nanoporous Two-Dimensional Polymer at the Air/Water Interface. <i>Journal of the American Chemical Society</i> , 2015, 137, 3450-3453. | 6.6 | 209 |
| 8 | Solvent Induced Polymorphism in Supramolecular 1,3,5-Benzenetribenzoic Acid Monolayers. <i>Journal of Physical Chemistry B</i> , 2006, 110, 10829-10836. | 1.2 | 206 |
| 9 | Carboxylic Acids: Versatile Building Blocks and Mediators for Two-Dimensional Supramolecular Self-Assembly. <i>Langmuir</i> , 2009, 25, 11307-11321. | 1.6 | 197 |
| 10 | Isorecticular Two-Dimensional Covalent Organic Frameworks Synthesized by On-Surface Condensation of Diboronic Acids. <i>ACS Nano</i> , 2012, 6, 7234-7242. | 7.3 | 194 |
| 11 | On-Surface Ullmann Coupling: The Influence of Kinetic Reaction Parameters on the Morphology and Quality of Covalent Networks. <i>ACS Nano</i> , 2014, 8, 7880-7889. | 7.3 | 194 |
| 12 | Room-Temperature Scanning Tunneling Microscopy Manipulation of Single C60 Molecules at the Liquid-Solid Interface: Playing Nanosoccer. <i>Journal of Physical Chemistry B</i> , 2004, 108, 11556-11560. | 1.2 | 193 |
| 13 | Thermodynamical Equilibrium of Binary Supramolecular Networks at the Liquid-Solid Interface. <i>Journal of the American Chemical Society</i> , 2008, 130, 8502-8507. | 6.6 | 177 |
| 14 | On-surface Ullmann polymerization via intermediate organometallic networks on Ag(111). <i>Chemical Communications</i> , 2014, 50, 7680-7682. | 2.2 | 163 |
| 15 | Surface-assisted Ullmann coupling. <i>Chemical Communications</i> , 2017, 53, 7872-7885. | 2.2 | 157 |
| 16 | Material- and Orientation-Dependent Reactivity for Heterogeneously Catalyzed Carbon-Bromine Bond Homolysis. <i>Journal of Physical Chemistry C</i> , 2010, 114, 12604-12609. | 1.5 | 134 |
| 17 | A STM perspective on covalent intermolecular coupling reactions on surfaces. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 464011. | 1.3 | 120 |
| 18 | Self-Assembly of Benzene-Dicarboxylic Acid Isomers at the Liquid Solid Interface: Steric Aspects of Hydrogen Bonding. <i>Journal of Physical Chemistry B</i> , 2004, 108, 13652-13655. | 1.2 | 113 |

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|----|--|-----|-----------|
| 19 | On-surface polymerization of 1,4-diethynylbenzene on Cu(111). <i>Chemical Communications</i> , 2013, 49, 2900. | 2.2 | 97 |
| 20 | Explosives Sensing by Using Electron-Rich Supramolecular Polymers: Role of Intermolecular Hydrogen Bonding in Significant Enhancement of Sensitivity. <i>Chemistry - A European Journal</i> , 2014, 20, 13662-13680. | 1.7 | 94 |
| 21 | Determining adsorption geometry of individual tin-phthalocyanine molecules on Ag()—a STM study at submonolayer coverage. <i>Surface Science</i> , 2002, 520, L619-L624. | 0.8 | 91 |
| 22 | Dynamics of Grain Boundaries in Two-Dimensional Hydrogen-Bonded Molecular Networks. <i>Small</i> , 2005, 1, 532-539. | 5.2 | 88 |
| 23 | 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. | 6.6 | 83 |
| 24 | Adsorption of Palladium Phthalocyanine on Graphite: A STM and LEED Study. <i>Journal of Physical Chemistry B</i> , 2004, 108, 7839-7843. | 1.2 | 79 |
| 25 | Nanopatterning of a covalent organic framework host-guest system. <i>Chemical Communications</i> , 2016, 52, 68-71. | 2.2 | 74 |
| 26 | Extended Two-Dimensional Metal-Organic Frameworks Based on Thiolate-Copper Coordination Bonds. <i>Journal of the American Chemical Society</i> , 2011, 133, 7909-7915. | 6.6 | 73 |
| 27 | On the Scalability of Supramolecular Networks — High Packing Density vs Optimized Hydrogen Bonds in Tricarboxylic Acid Monolayers. <i>Langmuir</i> , 2010, 26, 10708-10716. | 1.6 | 72 |
| 28 | On-surface photopolymerization of two-dimensional polymers ordered on the mesoscale. <i>Nature Chemistry</i> , 2021, 13, 730-736. | 6.6 | 68 |
| 29 | Aromatic interaction vs. hydrogen bonding in self-assembly at the liquid-solid interface. <i>Chemical Communications</i> , 2009, , 680-682. | 2.2 | 66 |
| 30 | Born-Haber Cycle for Monolayer Self-Assembly at the Liquid-Solid Interface: Assessing the Enthalpic Driving Force. <i>Journal of the American Chemical Society</i> , 2013, 135, 14854-14862. | 6.6 | 66 |
| 31 | On-surface polymerization - a versatile synthetic route to two-dimensional polymers. <i>Polymer International</i> , 2015, 64, 1073-1078. | 1.6 | 65 |
| 32 | Coronene on Ag(111) Investigated by LEED and STM in UHV. <i>Journal of Physical Chemistry B</i> , 2002, 106, 4482-4485. | 1.2 | 61 |
| 33 | Mediated Coadsorption at the Liquid-Solid Interface: Stabilization through Hydrogen Bonds. <i>Journal of Physical Chemistry B</i> , 2005, 109, 14074-14078. | 1.2 | 61 |
| 34 | Tunneling Voltage Polarity Dependent Submolecular Contrast of Naphthalocyanine on Graphite. A STM Study of Close-Packed Monolayers under Ultrahigh-Vacuum Conditions. <i>Journal of Physical Chemistry B</i> , 2004, 108, 2279-2284. | 1.2 | 59 |
| 35 | Synthesis of two-dimensional phenyleneboroxine networks through in vacuo condensation and on-surface radical addition. <i>Chemical Communications</i> , 2011, 47, 12355. | 2.2 | 58 |
| 36 | Incorporation Dynamics of Molecular Guests into Two-Dimensional Supramolecular Host Networks at the Liquid-Solid Interface. <i>Langmuir</i> , 2011, 27, 13563-13571. | 1.6 | 53 |

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|----|---|-----|-----------|
| 37 | Influence of Solvophobic Effects on Self-Assembly of Trimesic Acid at the Liquid-Solid Interface. <i>Journal of Physical Chemistry C</i> , 2010, 114, 3531-3536. | 1.5 | 52 |
| 38 | Control of Intermolecular Bonds by Deposition Rates at Room Temperature: Hydrogen Bonds versus Metal Coordination in Trinitrile Monolayers. <i>Journal of the American Chemical Society</i> , 2013, 135, 691-695. | 6.6 | 52 |
| 39 | On-surface radical addition of triply iodinated monomers on Au(111)-the influence of monomer size and thermal post-processing. <i>Surface Science</i> , 2012, 606, 999-1004. | 0.8 | 51 |
| 40 | Solution Preparation of Two-Dimensional Covalently Linked Networks by Polymerization of 1,3,5-Tri(4-iodophenyl)benzene on Au(111). <i>ACS Nano</i> , 2013, 7, 3014-3021. | 7.3 | 50 |
| 41 | From Au-Thiolate Chains to Thioether Sierpinski Triangles: The Versatile Surface Chemistry of 1,3,5-Tris(4-mercaptophenyl)benzene on Au(111). <i>ACS Nano</i> , 2016, 10, 10901-10911. | 7.3 | 47 |
| 42 | Molecular structures on crystalline metallic surfaces - From STM images to molecular electronics. <i>Microelectronic Engineering</i> , 2005, 82, 207-214. | 1.1 | 46 |
| 43 | Solvent-Dependent Stabilization of Metastable Monolayer Polymorphs at the Liquid-Solid Interface. <i>ACS Nano</i> , 2013, 7, 6711-6718. | 7.3 | 46 |
| 44 | 1,3-Diiodobenzene on Cu(111) - an exceptional case of on-surface Ullmann coupling. <i>Chemical Communications</i> , 2015, 51, 13301-13304. | 2.2 | 44 |
| 45 | Isotopological Supramolecular Networks from Melamine and Fatty Acids. <i>Journal of Physical Chemistry C</i> , 2009, 113, 1014-1019. | 1.5 | 40 |
| 46 | Post-Synthetic Decoupling of On-Surface-Synthesized Covalent Nanostructures from Ag(111). <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7650-7654. | 7.2 | 39 |
| 47 | Solvent-free on-surface synthesis of boroxine COF monolayers. <i>Chemical Communications</i> , 2017, 53, 5147-5150. | 2.2 | 36 |
| 48 | Thermodynamics of halogen bonded monolayer self-assembly at the liquid-solid interface. <i>Chemical Communications</i> , 2014, 50, 13465-13468. | 2.2 | 34 |
| 49 | Reversible intercalation of iodine monolayers between on-surface synthesised covalent polyphenylene networks and Au(111). <i>Nanoscale</i> , 2017, 9, 4995-5001. | 2.8 | 30 |
| 50 | On-Surface Polymerization of 1,6-Dibromo-3,8-diiodopyrene - A Comparative Study on Au(111) Versus Ag(111) by STM, XPS, and NEXAFS. <i>Journal of Physical Chemistry C</i> , 2018, 122, 5967-5977. | 1.5 | 29 |
| 51 | Origin of Solvent-Induced Polymorphism in Self-Assembly of Trimesic Acid Monolayers at Solid-Liquid Interfaces. <i>Chemistry of Materials</i> , 2020, 32, 5057-5065. | 3.2 | 29 |
| 52 | STM and STS of coronene on HOPG(0001) in UHV - adsorption of the smallest possible graphite flakes on graphite. <i>Analytical and Bioanalytical Chemistry</i> , 2002, 374, 685-687. | 1.9 | 27 |
| 53 | Supramolecular Self-Assembly Initiated by Solid-Solid Wetting. <i>Chemistry - A European Journal</i> , 2007, 13, 7785-7790. | 1.7 | 27 |
| 54 | Combination of a Knudsen effusion cell with a quartz crystal microbalance: <i>In situ</i> measurement of molecular evaporation rates with a fully functional deposition source. <i>Review of Scientific Instruments</i> , 2010, 81, 015108. | 0.6 | 27 |

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|----|---|-----|-----------|
| 55 | Distinct Differences in Self-Assembly of Aromatic Linear Dicarboxylic Acids. <i>Langmuir</i> , 2009, 25, 968-972. | 1.6 | 23 |
| 56 | Localized interaction of single porphyrin molecules with oxygen vacancies on TiO ₂ (110). <i>Journal of Chemical Physics</i> , 2012, 137, 234707. | 1.2 | 20 |
| 57 | Scanning Tunnelling Microscopy on Ultrathin Organic Layers of Phthalocyanine and Naphthalocyanines on Highly Oriented Pyrolytic Graphite (0001). <i>Japanese Journal of Applied Physics</i> , 2006, 45, 2268-2270. | 0.8 | 19 |
| 58 | Remote functionalization in surface-assisted dehalogenation by conformational mechanics: organometallic self-assembly of 3,3',5,5'-tetrabromo-2,2',4,4',6,6'-hexafluorobiphenyl on Ag(111). <i>Nanoscale</i> , 2018, 10, 12035-12044. | 2.8 | 19 |
| 59 | Competitive Metal Coordination of Hexaaminotriphenylene on Cu(111) by Intrinsic Copper Versus Extrinsic Nickel Adatoms. <i>Chemistry - A European Journal</i> , 2019, 25, 1975-1983. | 1.7 | 18 |
| 60 | Self-assembly of melem on Ag(111) – emergence of porous structures based on amino-heptazine hydrogen bonds. <i>CrystEngComm</i> , 2011, 13, 5559. | 1.3 | 17 |
| 61 | Thermodynamics of 4,4'-stilbenedicarboxylic acid monolayer self-assembly at the nonanoic acid-graphite interface. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 13239-13247. | 1.3 | 16 |
| 62 | Evolution of adsorption heights in the on-surface synthesis and decoupling of covalent organic networks on Ag(111) by normal-incidence X-ray standing wave. <i>Nanoscale Horizons</i> , 2021, 7, 51-62. | 4.1 | 15 |
| 63 | The influence of <i>ortho</i> -methyl substitution in organometallic self-assembly – a comparative study on Cu(111) vs. Ag(111). <i>Chemical Communications</i> , 2018, 54, 9745-9748. | 2.2 | 14 |
| 64 | Carbon-Carbon Coupling on Inert Surfaces by Deposition of En Route Generated Aryl Radicals. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22785-22789. | 7.2 | 14 |
| 65 | Adsorption structure determination of a large polyaromatic trithiolate on Cu(111): combination of LEED-I(V) and DFT-vdW. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 11054. | 1.3 | 13 |
| 66 | The Current Understanding of how 2D Polymers Grow Photochemically. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 5478-5490. | 1.2 | 10 |
| 67 | Postsynthetische Entkopplung oberflächensynthetisierter kovalenter Nanostrukturen von Ag(111). <i>Angewandte Chemie</i> , 2016, 128, 7780-7784. | 1.6 | 8 |
| 68 | What can be inferred from moiré patterns? A case study of trimesic acid monolayers on graphite. <i>Faraday Discussions</i> , 2017, 204, 331-348. | 1.6 | 8 |
| 69 | Synthesis on inert surfaces. <i>Dalton Transactions</i> , 2021, 50, 10020-10027. | 1.6 | 8 |
| 70 | Steering Self-Assembly of Three-Dimensional Iptycenes on Au(111) by Tuning Molecule-Surface Interactions. <i>Angewandte Chemie - International Edition</i> , 2022, , . | 7.2 | 6 |
| 71 | A combined ion-sputtering and electron-beam annealing device for the <i>in vacuo</i> postpreparation of scanning probes. <i>Review of Scientific Instruments</i> , 2011, 82, 033701. | 0.6 | 5 |
| 72 | Immersion-scanning-tunneling-microscope for long-term variable-temperature experiments at liquid-solid interfaces. <i>Review of Scientific Instruments</i> , 2018, 89, 053707. | 0.6 | 5 |

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|----|--|------|-----------|
| 73 | From Benzenetrithiolate Self-Assembly to Copper Sulfide Adlayers on Cu(111): Temperature-Induced Irreversible and Reversible Phase Transitions. <i>Journal of Physical Chemistry C</i> , 2014, 118, 3590-3598. | 1.5 | 4 |
| 74 | Quantifying the Ultraslow Desorption Kinetics of 2,6-Naphthalenedicarboxylic Acid Monolayers at Liquid-Solid Interfaces. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7320-7326. | 2.1 | 4 |
| 75 | On-surface synthesis – there will be light. <i>Trends in Chemistry</i> , 2022, 4, 471-474. | 4.4 | 4 |
| 76 | Two-dimensional polymer knits together and unravels in an electric field. <i>Nature</i> , 2019, 572, 448-449. | 13.7 | 3 |
| 77 | Self-Assembled Two-Dimensional Molecular Host-Guest Architectures From Trimesic Acid. <i>Single Molecules</i> , 2002, 3, 25-31. | 1.7 | 3 |
| 78 | Bottom-Up Fabrication of Two-Dimensional Polymers on Solid Surfaces. <i>Advances in Atom and Single Molecule Machines</i> , 2016, , 199-219. | 0.0 | 1 |
| 79 | Frontispiz: Postsynthetische Entkopplung oberflächensynthetisierter kovalenter Nanostrukturen von Ag(111). <i>Angewandte Chemie</i> , 2016, 128, . | 1.6 | 0 |
| 80 | Frontispiece: Post-Synthetic Decoupling of On-Surface-Synthesized Covalent Nanostructures from Ag(111). <i>Angewandte Chemie - International Edition</i> , 2016, 55, . | 7.2 | 0 |
| 81 | Kohlenstoff-Kohlenstoff-Kupplung auf inerten Oberflächen durch die Abscheidung von en route erzeugten Aryl Radikalen. <i>Angewandte Chemie</i> , 2020, 132, 22976-22981. | 1.6 | 0 |
| 82 | Halogen Bonds in Surface-Bound Supramolecular Self-Assembly. , 2018, , 68-74. | | 0 |
| 83 | Steering Self-Assembly of Three-Dimensional Iptycenes on Au(111) by Tuning Molecule-Surface Interactions. <i>Angewandte Chemie</i> , 0, , . | 1.6 | 0 |
| 84 | Initial Coupling and Reaction Progression of Directly Deposited Biradical Graphene Nanoribbon Monomers on Iodine-Passivated Versus Pristine Ag(111). <i>Chemistry</i> , 2022, 4, 259-269. | 0.9 | 0 |