# Guido Grundmeier

List of Publications by Year
in descending order



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|---|---|---|---|
| 58 papers | 1,324 citations | 304368 22 h-index | 395343 33 g-index |
| 58 all docs | 58 docs citations | 58 times ranked | 1487 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Influence of surface activation on the microporosity of PEâ€CVD and PEâ€ALD SiO<sub><i>x</i></sub> thin films on PDMS. Plasma Processes and Polymers, 2022, 19, . | 1.6 | 5 |
| 2 | Influence of hydrogel coatings on corrosion and fatigue of iron in simulated body fluid. Materials and Corrosion - Werkstoffe Und Korrosion, 2022, 73, 1034-1044. | 0.8 | 1 |
| 3 | Oxide Modified Iron in Electron Beam Powder Bed Fusionâ€"From Processability to Corrosion Properties. , 2022, 1, 31-53. | | 2 |
| 4 | Corrosion fatigue behavior of electron beam melted iron in simulated body fluid. Npj Materials Degradation, 2022, 6, . | 2.6 | 4 |
| 5 | Salting-Out of DNA Origami Nanostructures by Ammonium Sulfate. International Journal of Molecular Sciences, 2022, 23, 2817. | 1.8 | 8 |
| 6 | Environmentâ€Dependent Stability and Mechanical Properties of DNA Origami Sixâ€Helix Bundles with Different Crossover Spacings. Small, 2022, 18, e2107393. | 5.2 | 29 |
| 7 | The HSP40 chaperone Ydj1 drives amyloid beta 42 toxicity. EMBO Molecular Medicine, 2022, 14, e13952. | 3.3 | 16 |
| 8 | Anion-specific structure and stability of guanidinium-bound DNA origami. Computational and Structural Biotechnology Journal, 2022, 20, 2611-2623. | 1.9 | 6 |
| 9 | Comparative analysis of hexamethyldisiloxane and hexamethyldisilazane plasma polymer thin films before and after plasma oxidation. Plasma Processes and Polymers, 2022, 19, . | 1.6 | 7 |
| 10 | Effect of nanoscale surface topography on the adsorption of globular proteins. Applied Surface Science, 2021, 535, 147671. | 3.1 | 21 |
| 11 | Adsorption of SARSâ€CoVâ€2 Spike Protein S1 at Oxide Surfaces Studied by Highâ€Speed Atomic Force Microscopy. Advanced NanoBiomed Research, 2021, 1, 2000024. | 1.7 | 11 |
| 12 | Protein Adsorption at Nanorough Titanium Oxide Surfaces: The Importance of Surface Statistical Parameters beyond Surface Roughness. Nanomaterials, 2021, 11, 357. | 1.9 | 23 |
| 13 | Adsorption of SARSâ€CoVâ€2 Spike Protein S1 at Oxide Surfaces Studied by Highâ€Speed Atomic Force Microscopy. Advanced NanoBiomed Research, 2021, 1, 2170023. | 1.7 | 7 |
| 14 | Nanoscale Surface Topography Modulates hIAPP Aggregation Pathways at Solidâ€“Liquid Interfaces. International Journal of Molecular Sciences, 2021, 22, 5142. | 1.8 | 7 |
| 15 | Review of infrared spectroscopy techniques for the determination of internal structure in thin SiO2 films. Vibrational Spectroscopy, 2021, 114, 103256. | 1.2 | 10 |
| 16 | Scaling Up DNA Origami Lattice Assembly. Chemistry - A European Journal, 2021, 27, 8564-8571. | 1.7 | 25 |
| 17 | Frontispiece: Scaling Up DNA Origami Lattice Assembly. Chemistry - A European Journal, 2021, 27, . | 1.7 | 0 |
| 18 | Strain-Dependent Adsorption of Pseudomonas aeruginosa-Derived Adhesin-Like Peptides at Abiotic Surfaces. Micro, 2021, 1, 129-139. | 0.9 | 4 |

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|---|---|---|---|
| 19 | Magnesium-Free Immobilization of DNA Origami Nanostructures at Mica Surfaces for Atomic Force Microscopy. Molecules, 2021, 26, 4798. | 1.7 | 7 |
| 20 | Protein-Assisted Room-Temperature Assembly of Rigid, Immobile Holliday Junctions and Hierarchical DNA Nanostructures. Molecules, 2020, 25, 5099. | 1.7 | 1 |
| 21 | Arranging Small Molecules with Subnanometer Precision on DNA Origami Substrates for the Singleâ€Molecule Investigation of Proteinâ€“Ligand Interactions. Small Structures, 2020, 1, 2000038. | 6.9 | 31 |
| 22 | Self-assembly of highly ordered DNA origami lattices at solid-liquid interfaces by controlling cation binding and exchange. Nano Research, 2020, 13, 3142-3150. | 5.8 | 26 |
| 23 | Quantitative Assessment of Tip Effects in Singleâ€Molecule Highâ€Speed Atomic Force Microscopy Using DNA Origami Substrates. Angewandte Chemie - International Edition, 2020, 59, 14336-14341. | 7.2 | 6 |
| 24 | Quantitative Assessment of Tip Effects in Singleâ€Molecule Highâ€Speed Atomic Force Microscopy Using DNA Origami Substrates. Angewandte Chemie, 2020, 132, 14442-14447. | 1.6 | 2 |
| 25 | Cryopreservation of DNA Origami Nanostructures. Small, 2020, 16, e1905959. | 5.2 | 37 |
| 26 | Dynamics of lattice defects in mixed DNA origami monolayers. Nanoscale, 2020, 12, 9733-9743. | 2.8 | 10 |
| 27 | Enhancing the stability of DNA origami nanostructures: staple strand redesign<i>versus</i>enzymatic ligation. Nanoscale, 2019, 11, 16270-16276. | 2.8 | 40 |
| 28 | Effect of Terminal Modifications on the Adsorption and Assembly of hIAPP(20â€“29). ACS Omega, 2019, 4, 2649-2660. | 1.6 | 11 |
| 29 | Dependance of Poly(acrylic acid) Interfacial Adhesion on the Nanostructure of Electrodeposited ZnO Films. ACS Applied Nano Materials, 2019, 2, 831-843. | 2.4 | 16 |
| 30 | Realâ€Time Observation of Superstructureâ€Dependent DNA Origami Digestion by DNaseâ€…I Using Highâ€Speed Atomic Force Microscopy. ChemBioChem, 2019, 20, 2818-2823. | 1.3 | 66 |
| 31 | Low-Temperature Plasma-Enhanced Atomic Layer Deposition of Tin(IV) Oxide from a Functionalized Alkyl Precursor: Fabrication and Evaluation of SnO<sub>2</sub>-Based Thin-Film Transistor Devices. ACS Applied Materials & Interfaces, 2019, 11, 3169-3180. | 4.0 | 33 |
| 32 | Adsorption and Fibrillization of Islet Amyloid Polypeptide at Self-Assembled Monolayers Studied by QCM-D, AFM, and PM-IRRAS. Langmuir, 2018, 34, 3517-3524. | 1.6 | 31 |
| 33 | PEALD of SiO<sub>2</sub> and Al<sub>2</sub>O<sub>3</sub> Thin Films on Polypropylene: Investigations of the Film Growth at the Interface, Stress, and Gas Barrier Properties of Dyads. ACS Applied Materials & Interfaces, 2018, 10, 7422-7434. | 4.0 | 37 |
| 34 | A combinatorial approach to enhance barrier properties of thin films on polymers: Seeding and capping of PECVD thin films by PEALD. Plasma Processes and Polymers, 2018, 15, 1700209. | 1.6 | 12 |
| 35 | Water assisted atomic layer deposition of yttrium oxide using tris(<i>N</i>,<i>N</i>â€²-diisopropyl-2-dimethylamido-guanidinato) yttrium(<scp>iii</scp>): process development, film characterization and functional properties. RSC Advances, 2018, 8, 4987-4994. | 1.7 | 38 |
| 36 | Dynamics of DNA Origami Lattice Formation at Solidâ€“Liquid Interfaces. ACS Applied Materials & Interfaces, 2018, 10, 44844-44853. | 4.0 | 43 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 37 | Pharmacophore Nanoarrays on DNA Origami Substrates as a Singleâ€Molecule Assay for Fragmentâ€Based Drug Discovery. Angewandte Chemie - International Edition, 2018, 57, 14873-14877. | 7.2 | 36 |
| 38 | Pharmacophore Nanoarrays on DNA Origami Substrates as a Singleâ€Molecule Assay for Fragmentâ€Based Drug Discovery. Angewandte Chemie, 2018, 130, 15089-15093. | 1.6 | 12 |
| 39 | On the Adsorption of DNA Origami Nanostructures in Nanohole Arrays. Langmuir, 2018, 34, 14757-14765. | 1.6 | 22 |
| 40 | On the Stability of DNA Origami Nanostructures in Lowâ€Magnesium Buffers. Angewandte Chemie - International Edition, 2018, 57, 9470-9474. | 7.2 | 168 |
| 41 | Directed Protein Adsorption Through DNA Origami Masks. Methods in Molecular Biology, 2018, 1811, 253-262. | 0.4 | 2 |
| 42 | Superstructure-Dependent Loading of DNA Origami Nanostructures with a Groove-Binding Drug. ACS Omega, 2018, 3, 9441-9448. | 1.6 | 42 |
| 43 | <i>In situ</i> PMâ€IRRAS studies of organothiols and organosilane monolayersâ€"ZnO interfaces at high water activities. Surface and Interface Analysis, 2017, 49, 71-74. | 0.8 | 10 |
| 44 | Cationâ€Induced Stabilization and Denaturation of DNA Origami Nanostructures in Urea and Guanidinium Chloride. Small, 2017, 13, 1702100. | 5.2 | 32 |
| 45 | Deformation behavior of nanocrystalline titania particles accessed by complementary inÂsitu electron microscopy techniques. Journal of the American Ceramic Society, 2017, 100, 5709-5722. | 1.9 | 15 |
| 46 | Unearthing [3â€(Dimethylamino)propyl]aluminium(III) Complexes as Novel Atomic Layer Deposition (ALD) Precursors for Al<sub>2</sub>O<sub>3</sub>: Synthesis, Characterization and ALD Process Development. Chemistry - A European Journal, 2017, 23, 10768-10772. | 1.7 | 15 |
| 47 | Influence of the Surface and Heat Treatment on the Bond Strength of Galvanized Steel/Aluminum Composites Joined by Plastic Deformation. Advanced Engineering Materials, 2016, 18, 1371-1380. | 1.6 | 18 |
| 48 | Structural stability of DNA origami nanostructures in the presence of chaotropic agents. Nanoscale, 2016, 8, 10398-10405. | 2.8 | 59 |
| 49 | Regular Nanoscale Protein Patterns via Directed Adsorption through Self-Assembled DNA Origami Masks. ACS Applied Materials & Interfaces, 2016, 8, 31239-31247. | 4.0 | 52 |
| 50 | DNA annealing by RedÎ² is insufficient for homologous recombination and the additional requirements involve intra- and inter-molecular interactions. Scientific Reports, 2016, 6, 34525. | 1.6 | 15 |
| 51 | Spectroscopic and Microscopic Investigations of Degradation Processes in Polymer Surfaceâ€Near Regions During the Deposition of SiO<sub>x</sub> Films. Plasma Processes and Polymers, 2015, 12, 1002-1009. | 1.6 | 19 |
| 52 | Inhibition of Interfacial Oxidative Degradation During SiO<sub>x</sub>Plasma Polymer Barrier Film Deposition on Model Organic Substrates. Plasma Processes and Polymers, 2015, 12, 392-397. | 1.6 | 22 |
| 53 | Processing of New Materials by Additive Manufacturing: Iron-Based Alloys Containing Silver for Biomedical Applications. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 2829-2833. | 1.1 | 49 |
| 54 | Toward a microscopic understanding of the calciumâ€"silicateâ€"hydrates/water interface. Applied Surface Science, 2014, 290, 207-214. | 3.1 | 31 |

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| 55 | Effect of hydrogen and oxygen plasma treatments on the electrical and electrochemical properties of zinc oxide nanorod films on zinc substrates. Electrochemistry Communications, 2011, 13, 837-839. | 2.3 | 15 |
| 56 | Surface-enhanced Raman spectroscopy of the growth of ultra-thin organosilicon plasma polymers on nanoporous Ag/SiO2-bilayer films. Thin Solid Films, 2006, 515, 1266-1274. | 0.8 | 16 |
| 57 | Interfacial processes during plasma polymer deposition on oxide covered iron. Thin Solid Films, 1999, 352, 119-127. | 0.8 | 38 |
| 58 | Enhanced corrosion resistance of adhesive/galvanised steel interfaces by nanocrystalline ZnO thin film deposition and molecular adhesion promoting films. Journal of Adhesion, 0, , 1-21. | 1.8 | 3 |