Guido Grundmeier

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8402196/publications.pdf

Version: 2024-02-01

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	On the Stability of DNA Origami Nanostructures in Lowâ€Magnesium Buffers. Angewandte Chemie - International Edition, 2018, 57, 9470-9474.	7.2	168
2	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
3	Structural stability of DNA origami nanostructures in the presence of chaotropic agents. Nanoscale, 2016, 8, 10398-10405.	2.8	59
4	Regular Nanoscale Protein Patterns via Directed Adsorption through Self-Assembled DNA Origami Masks. ACS Applied Materials & Interfaces, 2016, 8, 31239-31247.	4.0	52
5	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
6	Dynamics of DNA Origami Lattice Formation at Solidâ€“Liquid Interfaces. ACS Applied Materials & Interfaces, 2018, 10, 44844-44853.	4.0	43
7	Superstructure-Dependent Loading of DNA Origami Nanostructures with a Groove-Binding Drug. ACS Omega, 2018, 3, 9441-9448.	1.6	42
8	Enhancing the stability of DNA origami nanostructures: staple strand redesignversusenzymatic ligation. Nanoscale, 2019, 11, 16270-16276.	2.8	40
9	Interfacial processes during plasma polymer deposition on oxide covered iron. Thin Solid Films, 1999, 352, 119-127.	0.8	38
10	Water assisted atomic layer deposition of yttrium oxide using tris(N,Nâ€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
11	PEALD of SiO₂ and Al₂O₃ 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
12	Cryopreservation of DNA Origami Nanostructures. Small, 2020, 16, e1905959.	5.2	37
13	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
14	Low-Temperature Plasma-Enhanced Atomic Layer Deposition of Tin(IV) Oxide from a Functionalized Alkyl Precursor: Fabrication and Evaluation of SnO₂-Based Thin-Film Transistor Devices. ACS Applied Materials & Interfaces, 2019, 11, 3169-3180.	4.0	33
15	Cationâ€Induced Stabilization and Denaturation of DNA Origami Nanostructures in Urea and Guanidinium Chloride. Small, 2017, 13, 1702100.	5.2	32
16	Toward a microscopic understanding of the calciumâ€“silicateâ€“hydrates/water interface. Applied Surface Science, 2014, 290, 207-214.	3.1	31
17	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
18	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

#	Article	IF	Citations
19	Environmentâ€Dependent Stability and Mechanical Properties of DNA Origami Sixâ€Helix Bundles with Different Crossover Spacings. Small, 2022, 18, e2107393.	5.2	29
20	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
21	Scaling Up DNA Origami Lattice Assembly. Chemistry - A European Journal, 2021, 27, 8564-8571.	1.7	25
22	Protein Adsorption at Nanorough Titanium Oxide Surfaces: The Importance of Surface Statistical Parameters beyond Surface Roughness. Nanomaterials, 2021, 11, 357.	1.9	23
23	Inhibition of Interfacial Oxidative Degradation During SiO_xPlasma Polymer Barrier Film Deposition on Model Organic Substrates. Plasma Processes and Polymers, 2015, 12, 392-397.	1.6	22
24	On the Adsorption of DNA Origami Nanostructures in Nanohole Arrays. Langmuir, 2018, 34, 14757-14765.	1.6	22
25	Effect of nanoscale surface topography on the adsorption of globular proteins. Applied Surface Science, 2021, 535, 147671.	3.1	21
26	Spectroscopic and Microscopic Investigations of Degradation Processes in Polymer Surfaceâ€Near Regions During the Deposition of SiO_x Films. Plasma Processes and Polymers, 2015, 12, 1002-1009.	1.6	19
27	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
28	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
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	The HSP40 chaperone Ydj1 drives amyloid beta 42 toxicity. EMBO Molecular Medicine, 2022, 14, e13952.	3.3	16
31	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
32	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
33	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
34	Unearthing [3â€(Dimethylamino)propyl]aluminium(III) Complexes as Novel Atomic Layer Deposition (ALD) Precursors for Al₂O₃: Synthesis, Characterization and ALD Process Development. Chemistry - A European Journal, 2017, 23, 10768-10772.	1.7	15
35	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
36	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

#	Article	IF	Citations
37	Effect of Terminal Modifications on the Adsorption and Assembly of hIAPP(20â€“29). ACS Omega, 2019, 4, 2649-2660.	1.6	11
38	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
39	In situ 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
40	Dynamics of lattice defects in mixed DNA origami monolayers. Nanoscale, 2020, 12, 9733-9743.	2.8	10
41	Review of infrared spectroscopy techniques for the determination of internal structure in thin SiO2 films. Vibrational Spectroscopy, 2021, 114, 103256.	1.2	10
42	Salting-Out of DNA Origami Nanostructures by Ammonium Sulfate. International Journal of Molecular Sciences, 2022, 23, 2817.	1.8	8
43	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
44	Nanoscale Surface Topography Modulates hIAPP Aggregation Pathways at Solidâ€“Liquid Interfaces. International Journal of Molecular Sciences, 2021, 22, 5142.	1.8	7
45	Magnesium-Free Immobilization of DNA Origami Nanostructures at Mica Surfaces for Atomic Force Microscopy. Molecules, 2021, 26, 4798.	1.7	7
46	Comparative analysis of hexamethyldisiloxane and hexamethyldisilazane plasma polymer thin films before and after plasma oxidation. Plasma Processes and Polymers, 2022, 19, .	1.6	7
47	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
48	Anion-specific structure and stability of guanidinium-bound DNA origami. Computational and Structural Biotechnology Journal, 2022, 20, 2611-2623.	1.9	6
49	Influence of surface activation on the microporosity of PEâ€CVD and PEâ€ALD SiO_x thin films on PDMS. Plasma Processes and Polymers, 2022, 19, .	1.6	5
50	Strain-Dependent Adsorption of Pseudomonas aeruginosa-Derived Adhesin-Like Peptides at Abiotic Surfaces. Micro, 2021, 1, 129-139.	0.9	4
51	Corrosion fatigue behavior of electron beam melted iron in simulated body fluid. Npj Materials Degradation, 2022, 6, .	2.6	4
52	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
53	Directed Protein Adsorption Through DNA Origami Masks. Methods in Molecular Biology, 2018, 1811, 253-262.	0.4	2
54	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

#	Article	IF	Citations
55	Oxide Modified Iron in Electron Beam Powder Bed Fusionâ€"From Processability to Corrosion Properties. , 2022, 1, 31-53.		2
56	Protein-Assisted Room-Temperature Assembly of Rigid, Immobile Holliday Junctions and Hierarchical DNA Nanostructures. Molecules, 2020, 25, 5099.	1.7	1
57	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
58	Frontispiece: Scaling Up DNA Origami Lattice Assembly. Chemistry - A European Journal, 2021, 27, .	1.7	0