Han Zuilhof

List of Publications by Year
in descending order

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385 papers	16,385 citations	15504 65 h-index	26613 107 g-index
405 all docs	405 docs citations	405 times ranked	18271 citing authors

#	Article	IF	Citations
1	Covalent Surface Modification of Oxide Surfaces. Angewandte Chemie - International Edition, 2014, 53, 6322-6356.	13.8	704
2	Liquid Crystalline Perylene Diimides:â€‰ Architecture and Charge Carrier Mobilities. Journal of the American Chemical Society, 2000, 122, 11057-11066.	13.7	499
3	Highly Stable Siâ^'C Linked Functionalized Monolayers on the Silicon (100) Surface. Langmuir, 1998, 14, 1759-1768.	3.5	495
4	Multivalent glycoconjugates as anti-pathogenic agents. Chemical Society Reviews, 2013, 42, 4709-4727.	38.1	464
5	Antibody orientation on biosensor surfaces: a minireview. Analyst, The, 2013, 138, 1619.	3.5	356
6	Surface brightens up Si quantum dots: direct bandgap-like size-tunable emission. Light: Science and Applications, 2013, 2, e47-e47.	16.6	254
7	Modification methods for poly(arylsulfone) membranes: A mini-review focusing on surface modification. Desalination, 2011, 275, 1-9.	8.2	243
8	Immobilised enzymes in biorenewables production. Chemical Society Reviews, 2013, 42, 6491.	38.1	232
9	Covalently Attached Monolayers on Crystalline Hydrogen-Terminated Silicon:Â Extremely Mild Attachment by Visible Light. Journal of the American Chemical Society, 2005, 127, 2514-2523.	13.7	224
10	Role of surface charge and oxidative stress in cytotoxicity of organic monolayer-coated silicon nanoparticles towards macrophage NR8383 cells. Particle and Fibre Toxicology, 2010, 7, 25.	6.2	224
11	An Improved Method for the Preparation of Organic Monolayers of 1-Alkenes on Hydrogen-Terminated Silicon Surfaces. Langmuir, 1999, 15, 8288-8291.	3.5	202
12	Alkylâ€Functionalized Oxideâ€Free Silicon Nanoparticles: Synthesis and Optical Properties. Small, 2008, 4, 1835-1841.	10.0	185
13	Plasma Micro-Nanotextured, Scratch, Water and Hexadecane Resistant, Superhydrophobic, and Superamphiphobic Polymeric Surfaces with Perfluorinated Monolayers. ACS Applied Materials & Interfaces, 2014, 6, 6510-6524.	8.0	165
14	Cytotoxicity of surface-functionalized silicon and germanium nanoparticles: the dominant role of surface charges. Nanoscale, 2013, 5, 4870.	5.6	161
15	Tiara[5]arenes: Synthesis, Solidâ€State Conformational Studies, Hostâ€“Guest Properties, and Application as Nonporous Adaptive Crystals. Angewandte Chemie - International Edition, 2020, 59, 3994-3999.	13.8	146
16	Amine-terminated silicon nanoparticles: synthesis, optical properties and their use in bioimaging. Journal of Materials Chemistry, 2009, 19, 5926.	6.7	142
17	H-Bond-Stabilized Triphenylene-Based Columnar Discotic Liquid Crystals. Chemistry of Materials, 2006, 18, 968-974.	6.7	141
18	Molecular Modeling of Covalently Attached Alkyl Monolayers on the Hydrogen-Terminated Si(111) Surface. Langmuir, 2001, 17, 2172-2181.	3.5	133

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19	Stable Protein-Repellent Zwitterionic Polymer Brushes Grafted from Silicon Nitride. Langmuir, 2011, 27, 2587-2594.	3.5	126
20	Amino-Terminated Organic Monolayers on Hydrogen-Terminated Silicon Surfaces. Langmuir, 2001, 17, 7554-7559.	3.5	123
21	Organic Monolayers onto Oxide-Free Silicon with Improved Surface Coverage: Alkynes versus Alkenes. Langmuir, 2010, 26, 4790-4795.	3.5	121
22	Simulation of XPS C1s Spectra of Organic Monolayers by Quantum Chemical Methods. Langmuir, 2013, 29, 4782-4788.	3.5	119
23	Photochemical Attachment of Organic Monolayers onto H-Terminated Si(111):Â Radical Chain Propagation Observed via STM Studies. Journal of the American Chemical Society, 2004, 126, 14318-14319.	13.7	118
24	Self-Assembly of High-Quality Covalently Bound Organic Monolayers onto Silicon. Langmuir, 2007, 23, 8343-8346.	3.5	111
25	Monolayers of 1-Alkynes on the H-Terminated Si(100) Surface. Langmuir, 2000, 16, 10359-10368.	3.5	110
26	Developments and Challenges in Selfâ€Healing Antifouling Materials. Advanced Functional Materials, 2020, 30, 1908098.	14.9	110
27	Synthesis and cytotoxicity of silicon nanoparticles with covalently attached organic monolayers. Nanotoxicology, 2009, 3, 339-347.	3.0	107
28	Metalâ€Free Click Chemistry Reactions on Surfaces. Advanced Materials Interfaces, 2015, 2, 1500135.	3.7	106
29	Si‐C Linked Organic Monolayers on Crystalline Silicon Surfaces as Alternative Gate Insulators. ChemPhysChem, 2005, 6, 2153-2166.	2.1	105
30	Hybrids of Organic Molecules and Flat, Oxide-Free Silicon: High-Density Monolayers, Electronic Properties, and Functionalization. Langmuir, 2012, 28, 9920-9929.	3.5	105
31	Covalent Attachment of Organic Monolayers to Silicon Carbide Surfaces. Langmuir, 2008, 24, 4007-4012.	3.5	104
32	Covalently Attached Monolayers on Hydrogen-Terminated Si(100): Extremely Mild Attachment by Visible Light. Angewandte Chemie - International Edition, 2004, 43, 1352-1355.	13.8	103
33	Strong Inhibition of Cholera Toxin by Multivalent GM1 Derivatives. ChemBioChem, 2007, 8, 1500-1503.	2.6	101
34	Dynamic covalent urea bonds and their potential for development of self-healing polymer materials. Journal of Materials Chemistry A, 2019, 7, 15933-15943.	10.3	101
35	Nickel hexacyanoferrate electrodes for high mono/divalent ion-selectivity in capacitive deionization. Desalination, 2020, 481, 114346.	8.2	101
36	Covalently Attached Organic Monolayers on SiC and Si_xN₄ Surfaces: Formation Using UV Light at Room Temperature. Langmuir, 2009, 25, 2172-2180.	3.5	99

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37	Weak Polyacid Brushes:Â Preparation by LB Deposition and Optically Detected Titrations. Langmuir, 1999, 15, 7116-7118.	3.5	98
38	Peptideâ€Mediated Bloodâ€“Brain Barrier Transport of Polymersomes. Angewandte Chemie - International Edition, 2012, 51, 8339-8342.	13.8	98
39	Functional monolayers on oxide-free silicon surfaces via thiolâ€“ene click chemistry. Chemical Communications, 2010, 46, 5512.	4.1	95
40	Romantic Surfaces: A Systematic Overview of Stable, Biospecific, and Antifouling Zwitterionic Surfaces. Langmuir, 2019, 35, 1072-1084.	3.5	95
41	Molecular Modeling of Alkyl Monolayers on the Si(111) Surface. Langmuir, 2000, 16, 2987-2990.	3.5	91
42	Rim-Differentiated C₅-Symmetric Tiara-Pillar[5]arenes. Journal of the American Chemical Society, 2018, 140, 74-77.	13.7	91
43	Surface Functionalization by Strainâ€Promoted Alkyneâ€“Azide Click Reactions. Angewandte Chemie - International Edition, 2011, 50, 5428-5430.	13.8	89
44	Molecular Electronics at Metal/Semiconductor Junctions. Si Inversion by Sub-Nanometer Molecular Films. Nano Letters, 2009, 9, 2390-2394.	9.1	86
45	Hydrolytic and Thermal Stability of Organic Monolayers on Various Inorganic Substrates. Langmuir, 2014, 30, 5829-5839.	3.5	86
46	Tetrahedraln-Type Materials:Â Efficient Quenching of the Excitation ofp-Type Polymers in Amorphous Films. Journal of the American Chemical Society, 2005, 127, 14530-14531.	13.7	82
47	Covalently Attached Saccharides on Silicon Surfaces. Journal of the American Chemical Society, 2003, 125, 13916-13917.	13.7	81
48	One-Step Photochemical Attachment of NHS-Terminated Monolayers onto Silicon Surfaces and Subsequent Functionalization. Langmuir, 2008, 24, 7931-7938.	3.5	78
49	Systematic Comparison of Zwitterionic and Non-Zwitterionic Antifouling Polymer Brushes on a Bead-Based Platform. Langmuir, 2019, 35, 1181-1191.	3.5	78
50	Engineering the Protein Corona Structure on Gold Nanoclusters Enables Redâ€Shifted Emissions in the Second Nearâ€Infrared Window for Gastrointestinal Imaging. Angewandte Chemie - International Edition, 2020, 59, 22431-22435.	13.8	78
51	Covalent Biofunctionalization of Silicon Nitride Surfaces. Langmuir, 2007, 23, 6233-6244.	3.5	77
52	Siliconâ€Free SuFEx Reactions of Sulfonimidoyl Fluorides: Scope, Enantioselectivity, and Mechanism. Angewandte Chemie - International Edition, 2020, 59, 7494-7500.	13.8	76
53	Tailor-Made Functionalization of Silicon Nitride Surfaces. Journal of the American Chemical Society, 2004, 126, 8600-8601.	13.7	74
54	Rapid control of Chinese star anise fruits and teas for neurotoxic anisatin by Direct Analysis in Real Time high resolution mass spectrometry. Journal of Chromatography A, 2012, 1259, 179-186.	3.7	74

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55	SuFExable polymers with helical structures derived from thionyl tetrafluoride. Nature Chemistry, 2021, 13, 858-867.	13.6	74
56	High electrical conductivity and high porosity in a Guest@MOF material: evidence of TCNQ ordering within Cu₃BTC₂ micropores. Chemical Science, 2018, 9, 7405-7412.	7.4	73
57	Three-Electron SN2 Reactions of Arylcyclopropane Cation Radicals. 2. Steric and Electronic Effects of Substitution1. Journal of the American Chemical Society, 1997, 119, 994-1004.	13.7	72
58	Self-Assembly of Organic Monolayers onto Hydrogen-Terminated Silicon: 1-Alkynes Are Better Than 1-Alkenes. Langmuir, 2010, 26, 10924-10929.	3.5	72
59	The effect of uniform capture molecule orientation on biosensor sensitivity: Dependence on analyte properties. Biosensors and Bioelectronics, 2013, 40, 219-226.	10.1	72
60	Cytotoxicity and cellular uptake of tri-block copolymer nanoparticles with different size and surface characteristics. Particle and Fibre Toxicology, 2012, 9, 11.	6.2	71
61	Functionalization at Will of Rim-Differentiated Pillar[5]arenes. Organic Letters, 2019, 21, 3976-3980.	4.6	69
62	Biofunctional Silicon Nanoparticles by Means of Thiolâ€Ene Click Chemistry. Chemistry - an Asian Journal, 2011, 6, 2776-2786.	3.3	68
63	Three-Electron SN2 Reactions of Arylcyclopropane Cation Radicals. 1. Mechanism1. Journal of the American Chemical Society, 1997, 119, 987-993.	13.7	67
64	Self-Healing Superhydrophobic Fluoropolymer Brushes as Highly Protein-Repellent Coatings. Langmuir, 2016, 32, 6310-6318.	3.5	67
65	Role of membrane disturbance and oxidative stress in the mode of action underlying the toxicity of differently charged polystyrene nanoparticles. RSC Advances, 2014, 4, 19321-19330.	3.6	66
66	Multiplex surface plasmon resonance biosensing and its transferability towards imaging nanoplasmonics for detection of mycotoxins in barley. Analyst, The, 2016, 141, 1307-1318.	3.5	66
67	The role of n-3 PUFA-derived fatty acid derivatives and their oxygenated metabolites in the modulation of inflammation. Prostaglandins and Other Lipid Mediators, 2019, 144, 106351.	1.9	66
68	Room-temperature intermediate layer bonding for microfluidic devices. Lab on A Chip, 2009, 9, 3481.	6.0	65
69	Electrochemical Detection of Tumor-Derived Extracellular Vesicles on Nanointerdigitated Electrodes. Nano Letters, 2020, 20, 820-828.	9.1	65
70	Hydrogen-bond stabilized columnar discotic benzenetrisamides with pendant triphenylene groups. Journal of Materials Chemistry, 2008, 18, 5475.	6.7	64
71	Laccaseâ€Mediated Grafting on Biopolymers and Synthetic Polymers: A Critical Review. ChemBioChem, 2018, 19, 288-311.	2.6	64
72	Silicon Surface Passivation by Organic Monolayers:â€‰ Minority Charge Carrier Lifetime Measurements and Kelvin Probe Investigations. Journal of Physical Chemistry B, 2003, 107, 6846-6852.	2.6	63

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73	Acylsemicarbazide Moieties with Dynamic Reversibility and Multiple Hydrogen Bonding for Transparent, High Modulus, and Malleable Polymers. Macromolecules, 2020, 53, 7914-7924.	4.8	62
74	Efficient and Tunable Three-Dimensional Functionalization of Fully Zwitterionic Antifouling Surface Coatings. Langmuir, 2016, 32, 10199-10205.	3.5	61
75	Mechanism of the Hydrosilylation Reaction of Alkenes at Porous Silicon:â€‰ Experimental and Computational Deuterium Labeling Studies. Journal of Physical Chemistry B, 2005, 109, 12020-12031.	2.6	60
76	Ultralow Adhesion and Friction of Fluoro-Hydro Alkyne-Derived Self-Assembled Monolayers on H-Terminated Si(111). Langmuir, 2012, 28, 17690-17700.	3.5	60
77	The Influence of Ligand Valency on Aggregation Mechanisms for Inhibiting Bacterial Toxins. ChemBioChem, 2009, 10, 329-337.	2.6	59
78	Tuning the Electronic Communication between Redox Centers Bound to Insulating Surfaces. Angewandte Chemie - International Edition, 2010, 49, 3157-3160.	13.8	59
79	Imaging surface plasmon resonance for multiplex microassay sensing of mycotoxins. Analytical and Bioanalytical Chemistry, 2011, 400, 3005-11.	3.7	59
80	Efficient Functionalization of Oxide-Free Silicon(111) Surfaces: Thiolâ€“yne versus Thiolâ€“ene Click Chemistry. Langmuir, 2013, 29, 4535-4542.	3.5	59
81	Controlling the Dopant Dose in Silicon by Mixed-Monolayer Doping. ACS Applied Materials & Interfaces, 2015, 7, 3231-3236.	8.0	58
82	Water-repairable zwitterionic polymer coatings for anti-biofouling surfaces. Journal of Materials Chemistry B, 2017, 5, 6728-6733.	5.8	58
83	Comparative Study of Ethane and Propane Cation Radicals by B3LYP Density Functional and High-Level ab Initio Methods. The Journal of Physical Chemistry, 1996, 100, 15774-15784.	2.9	57
84	Efficient Energy Transfer between Silicon Nanoparticles and a Ruâ^'Polypyridine Complex. Journal of Physical Chemistry C, 2009, 113, 2235-2240.	3.1	57
85	A Proteinâ€Based Pentavalent Inhibitor of the Cholera Toxin Bâ€Subunit. Angewandte Chemie - International Edition, 2014, 53, 8323-8327.	13.8	57
86	Hg/Molecular Monolayerâ^'Si Junctions: Electrical Interplay between Monolayer Properties and Semiconductor Doping Density. Journal of Physical Chemistry C, 2010, 114, 10270-10279.	3.1	56
87	Surface charge-specific cytotoxicity and cellular uptake of tri-block copolymer nanoparticles. Nanotoxicology, 2013, 7, 71-84.	3.0	56
88	Phosphorescence and fluorescence characterization of fluorescein derivatives immobilized in various polymer matrices. Physical Chemistry Chemical Physics, 2000, 2, 3697-3707.	2.8	55
89	Antifouling Polymer Brushes via Oxygen-Tolerant Surface-Initiated PET-RAFT. Langmuir, 2020, 36, 4439-4446.	3.5	55
90	Ï€-Stacked Quadruply Hydrogen-Bonded Dimers:â€‰ Ï€-Stacking Influences H-Bonding. Organic Letters, 2004, 6, 3667-3670.	4.6	54

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91	Femtosecond Time-Resolved Photophysics of 1,4,5,8-Naphthalene Diimides. Journal of Physical Chemistry A, 2007, 111, 6151-6156.	2.5	53
92	Bioconjugation of Protein-Repellent Zwitterionic Polymer Brushes Grafted from Silicon Nitride. Langmuir, 2012, 28, 604-610.	3.5	53
93	Key steps towards the oriented immobilization of antibodies using boronic acids. Analyst, The, 2015, 140, 6467-6472.	3.5	52
94	Engineering the Protein Corona Structure on Gold Nanoclusters Enables Redâ€Shifted Emissions in the Second Nearâ€Infrared Window for Gastrointestinal Imaging. Angewandte Chemie, 2020, 132, 22617-22621.	2.0	52
95	Charge transport across metal/molecular (alkyl) monolayer-Si junctions is dominated by the LUMO level. Physical Review B, 2012, 85, .	3.2	51
96	Visible-light attachment of SiC linked functionalized organic monolayers on silicon surfaces. Applied Surface Science, 2005, 252, 24-30.	6.1	50
97	Generic Top-Functionalization of Patterned Antifouling Zwitterionic Polymers on Indium Tin Oxide. Langmuir, 2012, 28, 12509-12517.	3.5	50
98	Picomolar inhibition of cholera toxin by a pentavalent ganglioside GM1os-calix[5]arene. Organic and Biomolecular Chemistry, 2013, 11, 4340-4349.	2.8	50
99	Kovalente OberflÃchenmodifikationen von Oxiden. Angewandte Chemie, 2014, 126, 6438-6474.	2.0	50
100	Preparation of polystyrene brushes by reaction of terminal vinyl groups on silicon and silica surfaces. Thin Solid Films, 2003, 426, 135-139.	1.8	49
101	Universal Calibration of Computationally Predicted N 1s Binding Energies for Interpretation of XPS Experimental Measurements. Langmuir, 2017, 33, 10792-10799.	3.5	49
102	Molecular control over vitrimer-like mechanics â€“ tuneable dynamic motifs based on the Hammett equation in polyimine materials. Chemical Science, 2021, 12, 293-302.	7.4	49
103	Copper-Free Click Biofunctionalization of Silicon Nitride Surfaces via Strain-Promoted Alkyneâ€“Azide Cycloaddition Reactions. Langmuir, 2012, 28, 8651-8663.	3.5	48
104	Getting a grip on glycans: A current overview of the metabolic oligosaccharide engineering toolbox. Carbohydrate Research, 2016, 435, 121-141.	2.3	48
105	Immuno-capture of extracellular vesicles for individual multi-modal characterization using AFM, SEM and Raman spectroscopy. Lab on A Chip, 2019, 19, 2526-2536.	6.0	48
106	A DNA-based strategy for dynamic positional enzyme immobilization inside fused silica microchannels. Chemical Science, 2011, 2, 1278.	7.4	47
107	Modification of Cation-Exchange Membranes with Polyelectrolyte Multilayers to Tune Ion Selectivity in Capacitive Deionization. ACS Applied Materials & Interfaces, 2020, 12, 34746-34754.	8.0	45
108	Geometry and electronic structure of bis-(glycinato)-CuIIÂ·2H2O complexes as studied by density functional B3LYP computations. Physical Chemistry Chemical Physics, 1999, 1, 4157-4163.	2.8	44

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109	Computational Probes into the Basis of Silver Ion Chromatography. II. Silver(I)â"Olefin Complexes. Journal of Physical Chemistry A, 2002, 106, 11197-11204.	2.5	44
110	Nanosecond Redox Equilibrium Method for Determining Oxidation Potentials in Organic Media. Journal of the American Chemical Society, 2004, 126, 14086-14094.	13.7	44
111	Microscopic Origin of the Fast Blueâ€Green Luminescence of Chemically Synthesized Nonâ€oxidized Silicon Quantum Dots. Small, 2012, 8, 3185-3191.	10.0	44
112	Adhesion and Friction Properties of Polymer Brushes: Fluoro versus Nonfluoro Polymer Brushes at Varying Thickness. Langmuir, 2014, 30, 2068-2076.	3.5	44
113	Structure Matters: Correlating temperature dependent electrical transport through alkyl monolayers with vibrational and photoelectron spectroscopies. Chemical Science, 2012, 3, 851-862.	7.4	43
114	Analysis of Mycotoxins in Beer Using a Portable Nanostructured Imaging Surface Plasmon Resonance Biosensor. Journal of Agricultural and Food Chemistry, 2016, 64, 8263-8271.	5.2	43
115	Ionization potentials of porphyrins and phthalocyanines. A comparative benchmark study of fast improvements of Koopman's Theorem. Journal of the Chemical Society Perkin Transactions II, 1999, , 1653-1662.	0.9	42
116	â€œClickableâ€•elastins: elastin-like polypeptides functionalized with azide or alkyne groups. Chemical Communications, 2009, , 4022.	4.1	42
117	Molecular Modeling of Alkyl and Alkenyl Monolayers on Hydrogen-Terminated Si(111). Langmuir, 2011, 27, 972-980.	3.5	42
118	Delocalization Does Not Always Stabilize:Â A Quantum Chemical Analysis of Î±-Substituent Effects on 54 Alkyl and Vinyl Cations. Journal of Physical Chemistry A, 2002, 106, 10681-10690.	2.5	41
119	Photochemical Covalent Attachment of Alkene-Derived Monolayers onto Hydroxyl-Terminated Silica. Langmuir, 2009, 25, 11592-11597.	3.5	41
120	Multi-responsive coordination polymers utilising metal-stabilised, dynamic covalent imine bonds. Chemical Communications, 2016, 52, 9059-9062.	4.1	41
121	Dual water-healable zwitterionic polymer coatings for anti-biofouling surfaces. Journal of Materials Chemistry B, 2018, 6, 6930-6935.	5.8	40
122	Hydrogen Bonding in Phosphine Oxide/Phosphateâ€"Phenol Complexes. ChemPhysChem, 2010, 11, 2230-2240.	2.1	39
123	Lipase-Catalyzed Aza-Michael Reaction on Acrylate Derivatives. Journal of Organic Chemistry, 2013, 78, 3802-3813.	3.2	39
124	Self-healing fluoropolymer brushes as highly polymer-repellent coatings. Journal of Materials Chemistry A, 2016, 4, 2408-2412.	10.3	39
125	Oxidation-Induced â€œOne-Potâ€•Click Chemistry. Chemical Reviews, 2021, 121, 7032-7058.	47.7	39
126	Solution Photoreactivity of Phenanthrenequinone Diimine Complexes of Rhodium and Correlations with DNA Photocleavage and Photooxidation. Journal of Physical Chemistry A, 1998, 102, 5708-5715.	2.5	38

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127	Biosynthesis of an Amphiphilic Silk-Like Polymer. Biomacromolecules, 2008, 9, 1705-1711.	5.4	38
128	Mimicking the Silicon Surface: Reactivity of Silyl Radical Cations toward Nucleophiles. Journal of the American Chemical Society, 2011, 133, 4998-5008.	13.7	38
129	Orientation of llama antibodies strongly increases sensitivity of biosensors. Biosensors and Bioelectronics, 2014, 60, 130-136.	10.1	38
130	Stability of (Bio)Functionalized Porous Aluminum Oxide. Langmuir, 2014, 30, 1311-1320.	3.5	38
131	Divalent Ion Selectivity in Capacitive Deionization with Vanadium Hexacyanoferrate: Experiments and Quantumâ€Chemical Computations. Advanced Functional Materials, 2021, 31, 2105203.	14.9	38
132	Dye-Substituted Acetylenes and Diacetylenes:Â Convenient Polymerization As Studied by Differential Scanning Calorimetry, FT-IR, and UVâ^'vis Spectroscopy. Macromolecules, 1999, 32, 1753-1762.	4.8	37
133	Multiple glass transitions in the plastic crystal phase of triphenylene derivatives. Journal of Non-Crystalline Solids, 2005, 351, 2622-2628.	3.1	37
134	Asymmetry in liquid crystalline hexaalkoxytriphenylene discotics. Liquid Crystals, 2005, 32, 977-983.	2.2	37
135	C22 Isomerization in Î±-Tomatine-to-Esculeoside A Conversion during Tomato Ripening Is Driven by C27 Hydroxylation of Triterpenoidal Skeleton. Journal of Agricultural and Food Chemistry, 2009, 57, 3786-3791.	5.2	37
136	Highly Specific Binding on Antifouling Zwitterionic Polymer-Coated Microbeads as Measured by Flow Cytometry. ACS Applied Materials & Interfaces, 2017, 9, 38211-38221.	8.0	37
137	Quantitative and Orthogonal Formation and Reactivity of SuFEx Platforms. Chemistry - A European Journal, 2018, 24, 10550-10556.	3.3	37
138	Separation of amino acid enantiomers by micelle-enhanced ultrafiltration. Chirality, 2000, 12, 627-636.	2.6	36
139	Amide, urea and thioureaâ€contain ing triphenylene derivatives: influence of Hâ€bonding on mesomorphic properties. Liquid Crystals, 2007, 34, 1029-1038.	2.2	36
140	Mono-Fluorinated Alkyne-Derived SAMs on Oxide-Free Si(111) Surfaces: Preparation, Characterization and Tuning of the Si Workfunction. Langmuir, 2013, 29, 570-580.	3.5	36
141	GM3, GM2 and GM1 mimics designed for biosensing: chemoenzymatic synthesis, target affinities and 900MHz NMR analysis. Carbohydrate Research, 2008, 343, 636-650.	2.3	35
142	Site-Specific Immobilization of DNA in Glass Microchannels via Photolithography. Langmuir, 2009, 25, 13952-13958.	3.5	35
143	Clickable Polylactic Acids by Fast Organocatalytic Ring-Opening Polymerization in Continuous Flow. Macromolecules, 2016, 49, 2054-2062.	4.8	35
144	Water desalination with nickel hexacyanoferrate electrodes in capacitive deionization: Experiment, model and comparison with carbon. Desalination, 2020, 496, 114647.	8.2	35

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145	Preparation, Characterization, and Surface Modification of Trifluoroethyl Ester-Terminated Silicon Nanoparticles. Chemistry of Materials, 2012, 24, 4311-4318.	6.7	34
146	Carbamate Stabilities of Sterically Hindered Amines from Quantum Chemical Methods: Relevance for CO₂ Capture. ChemPhysChem, 2013, 14, 3936-3943.	2.1	34
147	Biochip Spray: Simplified Coupling of Surface Plasmon Resonance Biosensing and Mass Spectrometry. Analytical Chemistry, 2017, 89, 1427-1432.	6.5	34
148	Complexation of Phenols and Thiophenol by Phosphine Oxides and Phosphates. Extraction, Isothermal Titration Calorimetry, and ab Initio Calculations. Journal of Physical Chemistry A, 2008, 112, 11714-11723.	2.5	33
149	Local Probe Oxidation of Self-Assembled Monolayers on Hydrogen-Terminated Silicon. ACS Nano, 2009, 3, 2887-2900.	14.6	33
150	Protein-Repellent Silicon Nitride Surfaces: UV-Induced Formation of Oligoethylene Oxide Monolayers. ACS Applied Materials & Interfaces, 2011, 3, 697-704.	8.0	33
151	Rapid Surface Functionalization of Hydrogen-Terminated Silicon by Alkyl Silanols. Journal of the American Chemical Society, 2017, 139, 5870-5876.	13.7	33
152	Covalently Attached Organic Monolayers onto Silicon Carbide from 1-Alkynes: Molecular Structure and Tribological Properties. Langmuir, 2013, 29, 4019-4031.	3.5	32
153	Diblock and Random Antifouling Bioactive Polymer Brushes on Gold Surfaces by Visibleâ€Lightâ€Induced Polymerization (SIâ€PETâ€RAFT) in Water. Advanced Materials Interfaces, 2022, 9, .	3.7	32
154	Quantum Chemical Calculations on Î±-Substituted Ethyl Cations:Â A Comparison between B3LYP and Post-HF Methods. Journal of Physical Chemistry A, 1998, 102, 10860-10868.	2.5	31
155	Photochemical Generation of Highly Destabilized Vinyl Cations:Â The Effects of Î±- and Î²-Trifluoromethyl versus Î±- and Î²-Methyl Substituents. Journal of Organic Chemistry, 2005, 70, 179-190.	3.2	31
156	Microcontact Printing onto Oxideâ€Free Silicon via Highly Reactive Acid Fluorideâ€Functionalized Monolayers. Small, 2010, 6, 642-650.	10.0	31
157	Hexadecadienyl Monolayers on Hydrogen-Terminated Si(111): Faster Monolayer Formation and Improved Surface Coverage Using the Enyne Moiety. Langmuir, 2012, 28, 6577-6588.	3.5	31
158	Adhesion and Friction Properties of Fluoropolymer Brushes: On the Tribological Inertness of Fluorine. Langmuir, 2014, 30, 12532-12540.	3.5	31
159	Surface etching, chemical modification and characterization of silicon nitride and silicon oxideâ€"selective functionalization of Si₃N₄and SiO₂. Journal of Physics Condensed Matter, 2016, 28, 094014.	1.8	31
160	Strainâ€Promoted Cycloaddition of Cyclopropenes with oâ€Quinones: A Rapid Click Reaction. Angewandte Chemie - International Edition, 2018, 57, 10118-10122.	13.8	31
161	pH Sensitivity of Sï£¿C Linked Organic Monolayers on Crystalline Silicon Surfaces. ChemPhysChem, 2007, 8, 101-112.	2.1	30
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