

Han Zuilhof

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368
papers

13,440
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56
h-index

97
g-index

405
ext. papers

14,881
ext. citations

6.4
avg, IF

6.65
L-index

#	Paper	IF	Citations
368	Covalent surface modification of oxide surfaces. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 6322-56	16.4	555
367	Liquid Crystalline Perylene Diimides: Architecture and Charge Carrier Mobilities. <i>Journal of the American Chemical Society</i> , 2000 , 122, 11057-11066	16.4	465
366	Highly Stable Si α Linked Functionalized Monolayers on the Silicon (100) Surface. <i>Langmuir</i> , 1998 , 14, 1759-1768	4	460
365	Multivalent glycoconjugates as anti-pathogenic agents. <i>Chemical Society Reviews</i> , 2013 , 42, 4709-27	58.5	399
364	Antibody orientation on biosensor surfaces: a minireview. <i>Analyst, The</i> , 2013 , 138, 1619-27	5	291
363	Surface brightens up Si quantum dots: direct bandgap-like size-tunable emission. <i>Light: Science and Applications</i> , 2013 , 2, e47-e47	16.7	225
362	Covalently attached monolayers on crystalline hydrogen-terminated silicon: extremely mild attachment by visible light. <i>Journal of the American Chemical Society</i> , 2005 , 127, 2514-23	16.4	212
361	Immobilised enzymes in biorenewables production. <i>Chemical Society Reviews</i> , 2013 , 42, 6491-533	58.5	198
360	Modification methods for poly(arylsulfone) membranes: A mini-review focusing on surface modification. <i>Desalination</i> , 2011 , 275, 1-9	10.3	198
359	Role of surface charge and oxidative stress in cytotoxicity of organic monolayer-coated silicon nanoparticles towards macrophage NR8383 cells. <i>Particle and Fibre Toxicology</i> , 2010 , 7, 25	8.4	195
358	An Improved Method for the Preparation of Organic Monolayers of 1-Alkenes on Hydrogen-Terminated Silicon Surfaces. <i>Langmuir</i> , 1999 , 15, 8288-8291	4	188
357	Alkyl-functionalized oxide-free silicon nanoparticles: synthesis and optical properties. <i>Small</i> , 2008 , 4, 1835-41	11	169
356	Plasma micro-nanotextured, scratch, water and hexadecane resistant, superhydrophobic, and superamphiphobic polymeric surfaces with perfluorinated monolayers. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 6510-24	9.5	142
355	Cytotoxicity of surface-functionalized silicon and germanium nanoparticles: the dominant role of surface charges. <i>Nanoscale</i> , 2013 , 5, 4870-83	7.7	141
354	H-Bond-Stabilized Triphenylene-Based Columnar Discotic Liquid Crystals. <i>Chemistry of Materials</i> , 2006 , 18, 968-974	9.6	132
353	Amine-terminated silicon nanoparticles: synthesis, optical properties and their use in bioimaging. <i>Journal of Materials Chemistry</i> , 2009 , 19, 5926		129
352	Molecular Modeling of Covalently Attached Alkyl Monolayers on the Hydrogen-Terminated Si(111) Surface. <i>Langmuir</i> , 2001 , 17, 2172-2181	4	125

351	Organic monolayers onto oxide-free silicon with improved surface coverage: alkynes versus alkenes. <i>Langmuir</i> , 2010 , 26, 4790-5	4	117
350	Stable protein-repellent zwitterionic polymer brushes grafted from silicon nitride. <i>Langmuir</i> , 2011 , 27, 2587-94	4	114
349	Amino-Terminated Organic Monolayers on Hydrogen-Terminated Silicon Surfaces. <i>Langmuir</i> , 2001 , 17, 7554-7559	4	114
348	Photochemical attachment of organic monolayers onto H-terminated Si(111): radical chain propagation observed via STM studies. <i>Journal of the American Chemical Society</i> , 2004 , 126, 14318-9	16.4	112
347	Self-assembly of high-quality covalently bound organic monolayers onto silicon. <i>Langmuir</i> , 2007 , 23, 8343-6	4	107
346	Simulation of XPS C1s spectra of organic monolayers by quantum chemical methods. <i>Langmuir</i> , 2013 , 29, 4782-8	4	101
345	Synthesis and cytotoxicity of silicon nanoparticles with covalently attached organic monolayers. <i>Nanotoxicology</i> , 2009 , 3, 339-347	5.3	100
344	Covalently attached monolayers on hydrogen-terminated Si(100): extremely mild attachment by visible light. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 1352-5	16.4	100
343	Strong inhibition of cholera toxin by multivalent GM1 derivatives. <i>ChemBioChem</i> , 2007 , 8, 1500-3	3.8	99
342	Hybrids of organic molecules and flat, oxide-free silicon: high-density monolayers, electronic properties, and functionalization. <i>Langmuir</i> , 2012 , 28, 9920-9	4	98
341	Si-C linked organic monolayers on crystalline silicon surfaces as alternative gate insulators. <i>ChemPhysChem</i> , 2005 , 6, 2153-66	3.2	98
340	Covalent attachment of organic monolayers to silicon carbide surfaces. <i>Langmuir</i> , 2008 , 24, 4007-12	4	97
339	Monolayers of 1-Alkynes on the H-Terminated Si(100) Surface. <i>Langmuir</i> , 2000 , 16, 10359-10368	4	96
338	Weak Polyacid Brushes: Preparation by LB Deposition and Optically Detected Titrations. <i>Langmuir</i> , 1999 , 15, 7116-7118	4	95
337	Metal-Free Click Chemistry Reactions on Surfaces. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500135	4.6	93
336	Covalently attached organic monolayers on SiC and Si ₃ N ₄ surfaces: formation using UV light at room temperature. <i>Langmuir</i> , 2009 , 25, 2172-80	4	93
335	Peptide-mediated blood-brain barrier transport of polymersomes. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 8339-42	16.4	87
334	Functional monolayers on oxide-free silicon surfaces via thiol-ene click chemistry. <i>Chemical Communications</i> , 2010 , 46, 5512-4	5.8	86

333	Surface functionalization by strain-promoted alkyne-azide click reactions. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 5428-30	16.4	83
332	Molecular electronics at metal/semiconductor junctions. Si inversion by sub-nanometer molecular films. <i>Nano Letters</i> , 2009 , 9, 2390-4	11.5	82
331	Molecular Modeling of Alkyl Monolayers on the Si(111) Surface. <i>Langmuir</i> , 2000 , 16, 2987-2990	4	82
330	Covalently attached saccharides on silicon surfaces. <i>Journal of the American Chemical Society</i> , 2003 , 125, 13916-7	16.4	76
329	One-step photochemical attachment of NHS-terminated monolayers onto silicon surfaces and subsequent functionalization. <i>Langmuir</i> , 2008 , 24, 7931-8	4	72
328	Tiara[5]arenes: Synthesis, Solid-State Conformational Studies, Host-Guest Properties, and Application as Nonporous Adaptive Crystals. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 3994-3999	16.4	72
327	Hydrolytic and thermal stability of organic monolayers on various inorganic substrates. <i>Langmuir</i> , 2014 , 30, 5829-39	4	71
326	Covalent biofunctionalization of silicon nitride surfaces. <i>Langmuir</i> , 2007 , 23, 6233-44	4	70
325	Self-assembly of organic monolayers onto hydrogen-terminated silicon: 1-alkynes are better than 1-alkenes. <i>Langmuir</i> , 2010 , 26, 10924-9	4	69
324	Tetrahedral n-type materials: efficient quenching of the excitation of p-type polymers in amorphous films. <i>Journal of the American Chemical Society</i> , 2005 , 127, 14530-1	16.4	69
323	Tailor-made functionalization of silicon nitride surfaces. <i>Journal of the American Chemical Society</i> , 2004 , 126, 8600-1	16.4	66
322	Biofunctional silicon nanoparticles by means of thiol-ene click chemistry. <i>Chemistry - an Asian Journal</i> , 2011 , 6, 2776-86	4.5	64
321	Developments and Challenges in Self-Healing Antifouling Materials. <i>Advanced Functional Materials</i> , 2020 , 30, 1908098	15.6	64
320	Rapid control of Chinese star anise fruits and teas for neurotoxic anisatin by Direct Analysis in Real Time high resolution mass spectrometry. <i>Journal of Chromatography A</i> , 2012 , 1259, 179-86	4.5	63
319	Hydrogen-bond stabilized columnar discotic benzenetrisamides with pendant triphenylene groups. <i>Journal of Materials Chemistry</i> , 2008 , 18, 5475		61
318	The effect of uniform capture molecule orientation on biosensor sensitivity: dependence on analyte properties. <i>Biosensors and Bioelectronics</i> , 2013 , 40, 219-26	11.8	59
317	Silicon Surface Passivation by Organic Monolayers: Minority Charge Carrier Lifetime Measurements and Kelvin Probe Investigations. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 6846-6852	3.4	59
316	Romantic Surfaces: A Systematic Overview of Stable, Biospecific, and Antifouling Zwitterionic Surfaces. <i>Langmuir</i> , 2019 , 35, 1072-1084	4	58

315	Nickel hexacyanoferrate electrodes for high mono/divalent ion-selectivity in capacitive deionization. <i>Desalination</i> , 2020 , 481, 114346	10.3	57
314	Tuning the electronic communication between redox centers bound to insulating surfaces. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 3157-60	16.4	57
313	Dynamic covalent urea bonds and their potential for development of self-healing polymer materials. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15933-15943	13	56
312	Ultralow adhesion and friction of fluoro-hydro alkyne-derived self-assembled monolayers on H-terminated Si(111). <i>Langmuir</i> , 2012 , 28, 17690-700	4	56
311	The influence of ligand valency on aggregation mechanisms for inhibiting bacterial toxins. <i>ChemBioChem</i> , 2009 , 10, 329-37	3.8	56
310	Three-Electron SN2 Reactions of Arylcyclopropane Cation Radicals. 2. Steric and Electronic Effects of Substitution1. <i>Journal of the American Chemical Society</i> , 1997 , 119, 994-1004	16.4	56
309	High electrical conductivity and high porosity in a Guest@MOF material: evidence of TCNQ ordering within CuBTC micropores. <i>Chemical Science</i> , 2018 , 9, 7405-7412	9.4	55
308	Cytotoxicity and cellular uptake of tri-block copolymer nanoparticles with different size and surface characteristics. <i>Particle and Fibre Toxicology</i> , 2012 , 9, 11	8.4	55
307	Efficient functionalization of oxide-free silicon(111) surfaces: thiol-yne versus thiol-ene click chemistry. <i>Langmuir</i> , 2013 , 29, 4535-42	4	54
306	Efficient Energy Transfer between Silicon Nanoparticles and a RuPolypyridine Complex. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 2235-2240	3.8	54
305	Comparative Study of Ethane and Propane Cation Radicals by B3LYP Density Functional and High-Level ab Initio Methods. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 15774-15784		54
304	Multiplex surface plasmon resonance biosensing and its transferability towards imaging nanoplasmonics for detection of mycotoxins in barley. <i>Analyst, The</i> , 2016 , 141, 1307-18	5	53
303	Imaging surface plasmon resonance for multiplex microassay sensing of mycotoxins. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 400, 3005-11	4.4	53
302	Three-Electron SN2 Reactions of Arylcyclopropane Cation Radicals. 1. Mechanism1. <i>Journal of the American Chemical Society</i> , 1997 , 119, 987-993	16.4	53
301	Mechanism of the hydrosilylation reaction of alkenes at porous silicon: experimental and computational deuterium labeling studies. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 12020-31	3.4	53
300	Phosphorescence and fluorescence characterization of fluorescein derivatives immobilized in various polymer matrices. <i>Physical Chemistry Chemical Physics</i> , 2000 , 2, 3697-3707	3.6	53
299	pi-Stacked quadruply hydrogen-bonded dimers: pi-stacking influences H-bonding. <i>Organic Letters</i> , 2004 , 6, 3667-70	6.2	52
298	Self-Healing Superhydrophobic Fluoropolymer Brushes as Highly Protein-Repellent Coatings. <i>Langmuir</i> , 2016 , 32, 6310-8	4	51

297	Surface charge-specific cytotoxicity and cellular uptake of tri-block copolymer nanoparticles. <i>Nanotoxicology</i> , 2013 , 7, 71-84	5.3	51
296	Hg/Molecular Monolayer/Si Junctions: Electrical Interplay between Monolayer Properties and Semiconductor Doping Density. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 10270-10279	3.8	51
295	Room-temperature intermediate layer bonding for microfluidic devices. <i>Lab on A Chip</i> , 2009 , 9, 3481-8	7.2	51
294	Controlling the dopant dose in silicon by mixed-monolayer doping. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 3231-6	9.5	50
293	Bioconjugation of protein-repellent zwitterionic polymer brushes grafted from silicon nitride. <i>Langmuir</i> , 2012 , 28, 604-10	4	50
292	Rim-Differentiated C-Symmetric Tiara-Pillar[5]arenes. <i>Journal of the American Chemical Society</i> , 2018 , 140, 74-77	16.4	50
291	Laccase-Mediated Grafting on Biopolymers and Synthetic Polymers: A Critical Review. <i>ChemBioChem</i> , 2018 , 19, 288-311	3.8	50
290	Efficient and Tunable Three-Dimensional Functionalization of Fully Zwitterionic Antifouling Surface Coatings. <i>Langmuir</i> , 2016 , 32, 10199-10205	4	49
289	Charge transport across metal/molecular (alkyl) monolayer-Si junctions is dominated by the LUMO level. <i>Physical Review B</i> , 2012 , 85,	3.3	48
288	Visible-light attachment of SiC linked functionalized organic monolayers on silicon surfaces. <i>Applied Surface Science</i> , 2005 , 252, 24-30	6.7	48
287	Femtosecond time-resolved photophysics of 1,4,5,8-naphthalene diimides. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 6151-6	2.8	47
286	Preparation of polystyrene brushes by reaction of terminal vinyl groups on silicon and silica surfaces. <i>Thin Solid Films</i> , 2003 , 426, 135-139	2.2	47
285	Systematic Comparison of Zwitterionic and Non-Zwitterionic Antifouling Polymer Brushes on a Bead-Based Platform. <i>Langmuir</i> , 2019 , 35, 1181-1191	4	47
284	A protein-based pentavalent inhibitor of the cholera toxin B-subunit. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 8323-7	16.4	46
283	Generic top-functionalization of patterned antifouling zwitterionic polymers on indium tin oxide. <i>Langmuir</i> , 2012 , 28, 12509-17	4	46
282	The role of n-3 PUFA-derived fatty acid derivatives and their oxygenated metabolites in the modulation of inflammation. <i>Prostaglandins and Other Lipid Mediators</i> , 2019 , 144, 106351	3.7	45
281	Kovalente Oberflächenmodifikationen von Oxiden. <i>Angewandte Chemie</i> , 2014 , 126, 6438-6474	3.6	45
280	Copper-free click biofunctionalization of silicon nitride surfaces via strain-promoted alkyne-azide cycloaddition reactions. <i>Langmuir</i> , 2012 , 28, 8651-63	4	44

279	Microscopic origin of the fast blue-green luminescence of chemically synthesized non-oxidized silicon quantum dots. <i>Small</i> , 2012 , 8, 3185-91	11	43
278	Picomolar inhibition of cholera toxin by a pentavalent ganglioside GM1os-calix[5]arene. <i>Organic and Biomolecular Chemistry</i> , 2013 , 11, 4340-9	3.9	43
277	Geometry and electronic structure of bis-(glycinato)-CuII·2H2O complexes as studied by density functional B3LYP computations. <i>Physical Chemistry Chemical Physics</i> , 1999 , 1, 4157-4163	3.6	43
276	Water-repairable zwitterionic polymer coatings for anti-biofouling surfaces. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 6728-6733	7.3	42
275	Structure Matters: Correlating temperature dependent electrical transport through alkyl monolayers with vibrational and photoelectron spectroscopies. <i>Chemical Science</i> , 2012 , 3, 851-862	9.4	42
274	Photochemical covalent attachment of alkene-derived monolayers onto hydroxyl-terminated silica. <i>Langmuir</i> , 2009 , 25, 11592-7	4	41
273	A DNA-based strategy for dynamic positional enzyme immobilization inside fused silica microchannels. <i>Chemical Science</i> , 2011 , 2, 1278	9.4	40
272	Molecular modeling of alkyl and alkenyl monolayers on hydrogen-terminated Si(111). <i>Langmuir</i> , 2011 , 27, 972-80	4	40
271	"Clickable" elastins: elastin-like polypeptides functionalized with azide or alkyne groups. <i>Chemical Communications</i> , 2009 , 4022-4	5.8	40
270	Delocalization Does Not Always Stabilize: A Quantum Chemical Analysis of Substituent Effects on 54 Alkyl and Vinyl Cations. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 10681-10690	2.8	40
269	Role of membrane disturbance and oxidative stress in the mode of action underlying the toxicity of differently charged polystyrene nanoparticles. <i>RSC Advances</i> , 2014 , 4, 19321-19330	3.7	39
268	Nanosecond redox equilibrium method for determining oxidation potentials in organic media. <i>Journal of the American Chemical Society</i> , 2004 , 126, 14086-94	16.4	38
267	Key steps towards the oriented immobilization of antibodies using boronic acids. <i>Analyst, The</i> , 2015 , 140, 6467-72	5	37
266	Getting a grip on glycans: A current overview of the metabolic oligosaccharide engineering toolbox. <i>Carbohydrate Research</i> , 2016 , 435, 121-141	2.9	37
265	Stability of (bio)functionalized porous aluminum oxide. <i>Langmuir</i> , 2014 , 30, 1311-20	4	37
264	Adhesion and friction properties of polymer brushes: fluoro versus nonfluoro polymer brushes at varying thickness. <i>Langmuir</i> , 2014 , 30, 2068-76	4	37
263	Mimicking the silicon surface: reactivity of silyl radical cations toward nucleophiles. <i>Journal of the American Chemical Society</i> , 2011 , 133, 4998-5008	16.4	37
262	Ionization potentials of porphyrins and phthalocyanines. A comparative benchmark study of fast improvements of Koopman's Theorem. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1999 , 1653-1662	37	

261	Dye-Substituted Acetylenes and Diacetylenes: Convenient Polymerization As Studied by Differential Scanning Calorimetry, FT-IR, and UV-Vis Spectroscopy. <i>Macromolecules</i> , 1999 , 32, 1753-1762	5.5	36
260	Analysis of Mycotoxins in Beer Using a Portable Nanostructured Imaging Surface Plasmon Resonance Biosensor. <i>Journal of Agricultural and Food Chemistry</i> , 2016 , 64, 8263-8271	5.7	36
259	Universal Calibration of Computationally Predicted N 1s Binding Energies for Interpretation of XPS Experimental Measurements. <i>Langmuir</i> , 2017 , 33, 10792-10799	4	35
258	Hydrogen bonding in phosphine oxide/phosphate-phenol complexes. <i>ChemPhysChem</i> , 2010 , 11, 2230-403.2	3.2	35
257	Biosynthesis of an amphiphilic silk-like polymer. <i>Biomacromolecules</i> , 2008 , 9, 1705-11	6.9	35
256	Amide, urea and thiourea-containing triphenylene derivatives: influence of H-bonding on mesomorphic properties. <i>Liquid Crystals</i> , 2007 , 34, 1029-1038	2.3	35
255	Asymmetry in liquid crystalline hexaalkoxytriphenylene discotics. <i>Liquid Crystals</i> , 2005 , 32, 977-983	2.3	35
254	Mono-fluorinated alkyne-derived SAMs on oxide-free Si(111) surfaces: preparation, characterization and tuning of the Si workfunction. <i>Langmuir</i> , 2013 , 29, 570-80	4	34
253	Functionalization at Will of Rim-Differentiated Pillar[5]arenes. <i>Organic Letters</i> , 2019 , 21, 3976-3980	6.2	33
252	GM3, GM2 and GM1 mimics designed for biosensing: chemoenzymatic synthesis, target affinities and 900 MHz NMR analysis. <i>Carbohydrate Research</i> , 2008 , 343, 636-50	2.9	33
251	Multiple glass transitions in the plastic crystal phase of triphenylene derivatives. <i>Journal of Non-Crystalline Solids</i> , 2005 , 351, 2622-2628	3.9	33
250	Computational Probes into the Basis of Silver Ion Chromatography. II. Silver(I)Defin Complexes. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 11197-11204	2.8	33
249	Electrochemical Detection of Tumor-Derived Extracellular Vesicles on Nanointerdigitated Electrodes. <i>Nano Letters</i> , 2020 , 20, 820-828	11.5	33
248	Multi-responsive coordination polymers utilising metal-stabilised, dynamic covalent imine bonds. <i>Chemical Communications</i> , 2016 , 52, 9059-62	5.8	32
247	Self-healing fluoropolymer brushes as highly polymer-repellent coatings. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 2408-2412	13	32
246	Preparation, Characterization, and Surface Modification of Trifluoroethyl Ester-Terminated Silicon Nanoparticles. <i>Chemistry of Materials</i> , 2012 , 24, 4311-4318	9.6	32
245	Site-specific immobilization of DNA in glass microchannels via photolithography. <i>Langmuir</i> , 2009 , 25, 13952-8	4	32
244	Separation of amino acid enantiomers by micelle-enhanced ultrafiltration. <i>Chirality</i> , 2000 , 12, 627-36	2.1	32

243	Solution Photoreactivity of Phenanthrenequinone Diimine Complexes of Rhodium and Correlations with DNA Photocleavage and Photooxidation. <i>Journal of Physical Chemistry A</i> , 1998 , 102, 5708-5715	2.8	32
242	Immuno-capture of extracellular vesicles for individual multi-modal characterization using AFM, SEM and Raman spectroscopy. <i>Lab on A Chip</i> , 2019 , 19, 2526-2536	7.2	31
241	Orientation of llama antibodies strongly increases sensitivity of biosensors. <i>Biosensors and Bioelectronics</i> , 2014 , 60, 130-6	11.8	31
240	Covalently attached organic monolayers onto silicon carbide from 1-alkynes: molecular structure and tribological properties. <i>Langmuir</i> , 2013 , 29, 4019-31	4	31
239	Hexadecadienyl monolayers on hydrogen-terminated Si(111): faster monolayer formation and improved surface coverage using the enyne moiety. <i>Langmuir</i> , 2012 , 28, 6577-88	4	31
238	Local probe oxidation of self-assembled monolayers on hydrogen-terminated silicon. <i>ACS Nano</i> , 2009 , 3, 2887-900	16.7	30
237	Complexation of phenols and thiophenol by phosphine oxides and phosphates. Extraction, isothermal titration calorimetry, and ab initio calculations. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 11714-23	2.8	30
236	Photochemical generation of highly destabilized vinyl cations: the effects of alpha- and beta-trifluoromethyl versus alpha- and beta-methyl substituents. <i>Journal of Organic Chemistry</i> , 2005 , 70, 179-90	4.2	30
235	Carbamate stabilities of sterically hindered amines from quantum chemical methods: relevance for CO ₂ capture. <i>ChemPhysChem</i> , 2013 , 14, 3936-43	3.2	29
234	Protein-repellent silicon nitride surfaces: UV-induced formation of oligoethylene oxide monolayers. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 697-704	9.5	29
233	Microcontact printing onto oxide-free silicon via highly reactive acid fluoride-functionalized monolayers. <i>Small</i> , 2010 , 6, 642-50	11	29
232	pH sensitivity of Si-C linked organic monolayers on crystalline silicon surfaces. <i>ChemPhysChem</i> , 2007 , 8, 101-12	3.2	29
231	Enhanced (+)-catechin transglucosylating activity of <i>Streptococcus mutans</i> GS-5 glucosyltransferase-D due to fructose removal. <i>Applied and Environmental Microbiology</i> , 1999 , 65, 4141-7	4.8	29
230	Biochip Spray: Simplified Coupling of Surface Plasmon Resonance Biosensing and Mass Spectrometry. <i>Analytical Chemistry</i> , 2017 , 89, 1427-1432	7.8	28
229	Rapid Surface Functionalization of Hydrogen-Terminated Silicon by Alkyl Silanols. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5870-5876	16.4	27
228	Highly Specific Binding on Antifouling Zwitterionic Polymer-Coated Microbeads as Measured by Flow Cytometry. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 38211-38221	9.5	27
227	Ambient surface analysis of organic monolayers using direct analysis in real time Orbitrap mass spectrometry. <i>Analytical Chemistry</i> , 2014 , 86, 2403-11	7.8	27
226	Quantum Chemical Calculations on Substituted Ethyl Cations: A Comparison between B3LYP and Post-HF Methods. <i>Journal of Physical Chemistry A</i> , 1998 , 102, 10860-10868	2.8	27

225	Molecular modeling of alkyl monolayers on the Si(100)-2 x 1 surface. <i>Langmuir</i> , 2004 , 20, 9108-13	4	27
224	Engineering the Protein Corona Structure on Gold Nanoclusters Enables Red-Shifted Emissions in the Second Near-infrared Window for Gastrointestinal Imaging. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 22431-22435	16.4	27
223	Dual water-healable zwitterionic polymer coatings for anti-biofouling surfaces. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 6930-6935	7.3	27
222	Silicon-Free SuFEx Reactions of Sulfonimidoyl Fluorides: Scope, Enantioselectivity, and Mechanism. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 7494-7500	16.4	26
221	Simulating the reactions of CO ₂ in aqueous monoethanolamine solution by reaction ensemble Monte Carlo using the continuous fractional component method. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 2661-9	6.4	26
220	Lipase-catalyzed aza-Michael reaction on acrylate derivatives. <i>Journal of Organic Chemistry</i> , 2013 , 78, 3802-13	4.2	26
219	Organic modification and subsequent biofunctionalization of porous anodic alumina using terminal alkynes. <i>Langmuir</i> , 2011 , 27, 13606-17	4	26
218	Elastin-like polypeptides of different molecular weights show independent transition temperatures when mixed. <i>Soft Matter</i> , 2009 , 5, 4305	3.6	26
217	Synthesis and optical properties of all-trans-oligodiacetylenes. <i>Chemistry - A European Journal</i> , 2008 , 14, 7939-50	4.8	26
216	Clickable Polylactic Acids by Fast Organocatalytic Ring-Opening Polymerization in Continuous Flow. <i>Macromolecules</i> , 2016 , 49, 2054-2062	5.5	26
215	One-Pot Gram-Scale Synthesis of Hydrogen-Terminated Silicon Nanoparticles. <i>Chemistry of Materials</i> , 2018 , 30, 6503-6512	9.6	26
214	Modification of Cation-Exchange Membranes with Polyelectrolyte Multilayers to Tune Ion Selectivity in Capacitive Deionization. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 34746-34754	9.5	25
213	In vitro nanoparticle toxicity to rat alveolar cells and coelomocytes from the earthworm <i>Lumbricus rubellus</i> . <i>Nanotoxicology</i> , 2014 , 8, 28-37	5.3	25
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