

Marcel Mayor

List of Publications by Year in descending order

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254
papers

12,777
citations

22153

59
h-index

30087

103
g-index

280
all docs

280
docs citations

280
times ranked

11268
citing authors

#	ARTICLE	IF	CITATIONS
1	Driving Current through Single Organic Molecules. <i>Physical Review Letters</i> , 2002, 88, 176804.	7.8	789
2	A single-molecule diode. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 8815-8820.	7.1	437
3	Experimental evidence for the functional relevance of anion-π interactions. <i>Nature Chemistry</i> , 2010, 2, 533-538.	13.6	434
4	Molecular junctions based on aromatic coupling. <i>Nature Nanotechnology</i> , 2008, 3, 569-574.	31.5	336
5	Quantum interference of large organic molecules. <i>Nature Communications</i> , 2011, 2, 263.	12.8	285
6	Influence of Conformation on Conductance of Biphenyl-Dithiol Single-Molecule Contacts. <i>Nano Letters</i> , 2010, 10, 156-163.	9.1	284
7	Light-Powered Electrical Switch Based on Cargo-Lifting Azobenzene Monolayers. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 3407-3409.	13.8	276
8	Cooperative light-induced molecular movements of highly ordered azobenzene self-assembled monolayers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 9937-9942.	7.1	273
9	Electric Current through a Molecular Rod: Relevance of the Position of the Anchor Groups. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 5834-5838.	13.8	272
10	Azobenzenes as Light-Controlled Molecular Electronic Switches in Nanoscale Metal-Molecule-Metal Junctions. <i>Journal of the American Chemical Society</i> , 2008, 130, 9192-9193.	13.7	257
11	Strain-induced helical chirality in polyaromatic systems. <i>Chemical Society Reviews</i> , 2016, 45, 1542-1556.	38.1	238
12	Single-Molecule Junctions Based on Nitrile-Terminated Biphenyls: A Promising New Anchoring Group. <i>Journal of the American Chemical Society</i> , 2011, 133, 184-187.	13.7	212
13	Matter-wave interference of particles selected from a molecular library with masses exceeding 10 ⁴ amu. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 14696.	2.8	197
14	Chirality in curved polyaromatic systems. <i>Chemical Society Reviews</i> , 2017, 46, 1643-1660.	38.1	194
15	Experimental Evidence for Quantum Interference and Vibrationally Induced Decoherence in Single-Molecule Junctions. <i>Physical Review Letters</i> , 2012, 109, 056801.	7.8	185
16	Electrical Conductance of Conjugated Oligomers at the Single Molecule Level. <i>Journal of the American Chemical Society</i> , 2008, 130, 1080-1084.	13.7	180
17	A Kapitza-Dirac-Talbot-Lau interferometer for highly polarizable molecules. <i>Nature Physics</i> , 2007, 3, 711-715.	16.7	175
18	Quantum superposition of molecules beyond 25 kDa. <i>Nature Physics</i> , 2019, 15, 1242-1245.	16.7	170

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19	Electronic transport through single conjugated molecules. <i>Chemical Physics</i> , 2002, 281, 113-125.	1.9	167
20	Chemically Controlled Conductivity: Torsion Angle Dependence in a Single-Molecule Biphenyldithiol Junction. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 8886-8890.	13.8	142
21	Electroluminescence from a single nanotube "molecule" nanotube junction. <i>Nature Nanotechnology</i> , 2010, 5, 863-867.	31.5	140
22	Optical Modulation of the Charge Injection in an Organic Field-Effect Transistor Based on Photochromic Self-Assembled Monolayer-Functionalized Electrodes. <i>Advanced Materials</i> , 2011, 23, 1447-1452.	21.0	140
23	Single-Molecule Spin Switch Based on Voltage-Triggered Distortion of the Coordination Sphere. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13425-13430.	13.8	138
24	Selective Dispersion of Single-Walled Carbon Nanotubes with Specific Chiral Indices by Poly(<i>N</i> -decyl-2,7-carbazole). <i>Journal of the American Chemical Society</i> , 2011, 133, 652-655.	13.7	135
25	Atrans-Platinum(II) Complex as a Single-Molecule Insulator. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 1183-1186.	13.8	134
26	Molecular daisy chains. <i>Chemical Society Reviews</i> , 2013, 42, 44-62.	38.1	130
27	Two Dimensional Chiral Networks Emerging from the Aryl-F-H Hydrogen-Bond-Driven Self-Assembly of Partially Fluorinated Rigid Molecular Structures. <i>Journal of the American Chemical Society</i> , 2008, 130, 10840-10841.	13.7	126
28	Low-temperature conductance measurements on single molecules. <i>Applied Physics Letters</i> , 2003, 82, 4137-4139.	3.3	125
29	Temperature and magnetic field dependence of a Kondo system in the weak coupling regime. <i>Nature Communications</i> , 2013, 4, 2110.	12.8	125
30	Two-dimensional assembly and local redox-activity of molecular hybrid structures in an electrochemical environment. <i>Faraday Discussions</i> , 2006, 131, 121-143.	3.2	124
31	Real-time single-molecule imaging of quantum interference. <i>Nature Nanotechnology</i> , 2012, 7, 297-300.	31.5	115
32	Cyclic Conductance Switching in Networks of Redox-Active Molecular Junctions. <i>Nano Letters</i> , 2010, 10, 759-764.	9.1	108
33	Functional molecules in electronic circuits. <i>Organic and Biomolecular Chemistry</i> , 2007, 5, 2343-53.	2.8	105
34	A Giant Conjugated Molecular Ring. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 3176-3179.	13.8	104
35	Stretching-Induced Conductance Increase in a Spin-Crossover Molecule. <i>Nano Letters</i> , 2016, 16, 4733-4737.	9.1	96
36	Large Work Function Shift of Gold Induced by a Novel Perfluorinated Azobenzene-Based Self-Assembled Monolayer. <i>Advanced Materials</i> , 2013, 25, 432-436.	21.0	93

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37	Self-Assembled Monolayers from Biphenyldithiol Derivatives: Optimization of the Deprotection Procedure and Effect of the Molecular Conformation. <i>Journal of Physical Chemistry B</i> , 2006, 110, 4307-4317.	2.6	83
38	Redox-Switching in a Viologen-type Adlayer: An Electrochemical Shell-Isolated Nanoparticle Enhanced Raman Spectroscopy Study on Au(111)-(1Å-1) Single Crystal Electrodes. <i>ACS Nano</i> , 2011, 5, 5662-5672.	14.6	83
39	A multifunctional poly-N-vinylcarbazole interlayer in perovskite solar cells for high stability and efficiency: a test with new triazatruxene-based hole transporting materials. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1913-1918.	10.3	83
40	Conduction mechanisms in biphenyl dithiol single-molecule junctions. <i>Physical Review B</i> , 2012, 85, .	3.2	82
41	Polymer Library Comprising Fluorene and Carbazole Homo- and Copolymers for Selective Single-Walled Carbon Nanotubes Extraction. <i>Macromolecules</i> , 2012, 45, 713-722.	4.8	80
42	In Situ Gap-Mode Raman Spectroscopy on Single-Crystal Au(100) Electrodes: Tuning the Torsion Angle of 4,4-Biphenyldithiols by an Electrochemical Gate Field. <i>Journal of the American Chemical Society</i> , 2011, 133, 7332-7335.	13.7	79
43	Single Component Self-Assembled Monolayers of Aromatic Azo-Biphenyl: Influence of the Packing Tightness on the SAM Structure and Light-Induced Molecular Movements. <i>Advanced Functional Materials</i> , 2008, 18, 2972-2983.	14.9	78
44	Conductance of redox-active single molecular junctions: an electrochemical approach. <i>Nanotechnology</i> , 2007, 18, 044018.	2.6	77
45	An electrically actuated molecular toggle switch. <i>Nature Communications</i> , 2017, 8, 14672.	12.8	77
46	Metallic nanoparticle contacts for high-yield, ambient-stable molecular-monolayer devices. <i>Nature</i> , 2018, 559, 232-235.	27.8	75
47	Optically switchable organic field-effect transistors based on photoresponsive gold nanoparticles blended with poly(3-hexylthiophene). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 12375-12380.	7.1	70
48	Molecular weaving via surface-templated epitaxy of crystalline coordination networks. <i>Nature Communications</i> , 2017, 8, 14442.	12.8	70
49	Large Conductance Variations in a Mechanosensitive Single-Molecule Junction. <i>Nano Letters</i> , 2018, 18, 5981-5988.	9.1	69
50	New Cruciform Structures: Toward Coordination Induced Single Molecule Switches. <i>Journal of Organic Chemistry</i> , 2007, 72, 8337-8344.	3.2	66
51	Heterogenization of Photochemical Molecular Devices: Embedding a Metal-Organic Cage into a ZIF-8-Derived Matrix To Promote Proton and Electron Transfer. <i>Journal of the American Chemical Society</i> , 2019, 141, 13057-13065.	13.7	64
52	Phenyl-Acetylene Bond Assembly: A Powerful Tool for the Construction of Nanoscale Architectures. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 4965-4983.	2.4	63
53	Copolymer-Controlled Diameter-Selective Dispersion of Semiconducting Single-Walled Carbon Nanotubes. <i>Chemistry of Materials</i> , 2011, 23, 2237-2249.	6.7	62
54	Modulating the charge injection in organic field-effect transistors: fluorinated oligophenyl self-assembled monolayers for high work function electrodes. <i>Journal of Materials Chemistry C</i> , 2015, 3, 3007-3015.	5.5	62

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55	Photoinduced work function changes by isomerization of a densely packed azobenzene-based SAM on Au: a joint experimental and theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 14302.	2.8	61
56	Charge Transport Through a Cardanâ€”Joint Molecule. <i>Small</i> , 2008, 4, 2229-2235.	10.0	60
57	Light-responsive reversible solvation and precipitation of gold nanoparticles. <i>Chemical Communications</i> , 2010, 46, 1147-1149.	4.1	60
58	Electronic decoupling of a cyclophane from a metal surface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 961-964.	7.1	59
59	Rigid multipodal platforms for metal surfaces. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 374-405.	2.8	55
60	Series of Photoswitchable Azobenzene-Containing Metalâ€”Organic Frameworks with Variable Adsorption Switching Effect. <i>Journal of Physical Chemistry C</i> , 2018, 122, 19044-19050.	3.1	54
61	Shape-persistent macrocycle with a self-complementary recognition pattern based on diacetylene-linked alternating hexylbenzene and perfluorobenzene rings. <i>Chemical Communications</i> , 2006, , 4134.	4.1	49
62	Influence of the Anchor Group on Charge Transport through Singleâ€”Molecule Junctions. <i>ChemPhysChem</i> , 2011, 12, 1677-1682.	2.1	46
63	Matterâ€”Wave Metrology as a Complementary Tool for Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 6195-6198.	13.8	45
64	Synthesis, Structure, and Optical Properties of Terminally Sulfur-Functionalized Core-Substituted Naphthalene-Bisimide Dyes. <i>Helvetica Chimica Acta</i> , 2006, 89, 1986-2005.	1.6	44
65	Reducible Nanosize Macrocycles. <i>Journal of the American Chemical Society</i> , 1999, 121, 11231-11232.	13.7	43
66	Charge Transport through Molecular Rods with Reduced π -Conjugation. <i>ChemPhysChem</i> , 2008, 9, 2252-2258.	2.1	43
67	Gold Nanoparticles Stabilized by Acetyleneâ€”Functionalized Multidentate Thioether Ligands: Building Blocks for Nanoparticle Superstructures. <i>Advanced Functional Materials</i> , 2009, 19, 3497-3506.	14.9	43
68	Shapeâ€”Switchable Azoâ€”Macrocycles. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 2562-2575.	2.4	43
69	Debundling, selection and release of SWNTs using fluorene-based photocleavable polymers. <i>Chemical Communications</i> , 2011, 47, 7428.	4.1	43
70	<i>Ab initio</i> study of the thermopower of biphenyl-based single-molecule junctions. <i>Physical Review B</i> , 2012, 86, .	3.2	43
71	Synthesis of Molecular Tripods Based on a Rigid 9,9â€”Spirobifluorene Scaffold. <i>Journal of Organic Chemistry</i> , 2014, 79, 7342-7357.	3.2	43
72	A New Class of Rigid Multi(azobenzene) Switches Featuring Electronic Decoupling: Unravelling the Isomerization in Individual Photochromes. <i>Journal of the American Chemical Society</i> , 2019, 141, 9273-9283.	13.7	43

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73	Bromine catalyzed conversion of S-tert-butyl groups into versatile and, for self-assembly processes accessible, acetyl-protected thiols. <i>Organic and Biomolecular Chemistry</i> , 2004, 2, 2722-2724.	2.8	41
74	Planar chiral asymmetric naphthalenediimide cyclophanes: synthesis, characterization and tunable FRET properties. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 3222.	2.8	41
75	Gold Nanoparticles Stabilized by Thioether Dendrimers. <i>Chemistry - A European Journal</i> , 2011, 17, 13473-13481.	3.3	41
76	Monofunctionalized Gold Nanoparticles Stabilized by a Single Dendrimer Form Dumbbell Structures upon Homocoupling. <i>Journal of the American Chemical Society</i> , 2012, 134, 14674-14677.	13.7	41
77	Mechanical Stabilization of Helical Chirality in a Macrocyclic Oligothiophene. <i>Journal of the American Chemical Society</i> , 2019, 141, 2104-2110.	13.7	41
78	Multidentate thioether ligands coating gold nanoparticles. <i>Chemical Communications</i> , 2008, , 3438.	4.1	40
79	Resonant Photoconductance of Molecular Junctions Formed in Gold Nanoparticle Arrays. <i>Journal of the American Chemical Society</i> , 2011, 133, 12185-12191.	13.7	40
80	Variation of the Backbone Conjugation in NLO Model Compounds: Torsion Angle Restricted, Biphenyl Based Push Pull Systems. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 1096-1110.	2.4	39
81	Importance of the Anchor Group Position (<i>Para</i> versus <i>Meta</i>) in Tetraphenylmethane Tripods: Synthesis and Self-Assembly Features. <i>Chemistry - A European Journal</i> , 2016, 22, 13218-13235.	3.3	39
82	Voltage-Driven Conformational Switching with Distinct Raman Signature in a Single-Molecule Junction. <i>Journal of the American Chemical Society</i> , 2018, 140, 4835-4840.	13.7	39
83	Catechol Based Macrocyclic Rods: En Route to Redox Active Molecular Switches. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 6140-6150.	2.4	38
84	Light emission from a double-decker molecule on a metal surface. <i>Physical Review B</i> , 2011, 84, .	3.2	38
85	Spatial and Lateral Control of Functionality by Rigid Molecular Platforms. <i>Chemistry - A European Journal</i> , 2017, 23, 13538-13548.	3.3	38
86	Electron Transfer Through Molecular Bridges Between Reducible Pentakis(thiophenyl)benzene Subunits. <i>Chemistry - A European Journal</i> , 2001, 7, 1266-1272.	3.3	37
87	Synthesis of Rotationally Restricted and Modular Biphenyl Building Blocks. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 120-133.	2.4	37
88	Electronic Decoupling in C ₃ -Symmetrical Light-Responsive Tris(Azobenzene) Scaffolds: Self-Assembly and Multiphotochromism. <i>Journal of the American Chemical Society</i> , 2018, 140, 16062-16070.	13.7	37
89	Interlinking Au nanoparticles in 2D arrays via conjugated dithiolated molecules. <i>New Journal of Physics</i> , 2008, 10, 065019.	2.9	36
90	Tuning Charge Transport Properties of Asymmetric Molecular Junctions. <i>Journal of Physical Chemistry C</i> , 2017, 121, 12885-12894.	3.1	36

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91	Selective Dispersion of Large-Diameter Semiconducting Single-Walled Carbon Nanotubes with Pyridine-Containing Copolymers. <i>Small</i> , 2014, 10, 360-367.	10.0	35
92	Synthesis of Macrocyclic Molecular Rods as Potential Electronic Devices. <i>European Journal of Organic Chemistry</i> , 2006, 2006, 3809-3825.	2.4	34
93	Potential-Induced Redox Switching in Viologen Self-Assembled Monolayers: An ATR-SEIRAS Approach. <i>Journal of Physical Chemistry C</i> , 2007, 111, 13855-13863.	3.1	34
94	Shape-persistent macrocycles comprising perfluorinated benzene subunits: synthesis, aggregation behaviour and unexpected 1/4-rod formation. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 1081.	2.8	33
95	Influence of conformational molecular dynamics on matter wave interferometry. <i>Physical Review A</i> , 2010, 81, .	2.5	33
96	Reducible Nanoscale Molecular Rods Based on Diacetylene-Linked Poly(phenylthio)-Substituted Benzenes. <i>Angewandte Chemie International Edition in English</i> , 1997, 36, 2370-2372.	4.4	32
97	Ein konjugierter molekularer Riesenring. <i>Angewandte Chemie</i> , 2003, 115, 3284-3287.	2.0	32
98	New 4,4-Bis(9-carbazolyl)-Biphenyl Derivatives with Locked Carbazole-Biphenyl Junctions: High-Triplet State Energy Materials. <i>Chemistry of Materials</i> , 2015, 27, 1772-1779.	6.7	32
99	Fragmentation and Distortion of Terpyridine-Based Spin-Crossover Complexes on Au(111). <i>Journal of Physical Chemistry C</i> , 2019, 123, 4178-4185.	3.1	32
100	Light-induced reversible modification of the work function of a new perfluorinated biphenyl azobenzene chemisorbed on Au (111). <i>Nanoscale</i> , 2014, 6, 8969-8977.	5.6	31
101	Protecting-Group-Controlled Surface Chemistry Organization and Heat-Induced Coupling of 4,4-Di(tert-butoxycarbonylamino)biphenyl on Metal Surfaces. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 3179-3183.	13.8	30
102	Multiscale Charge Injection and Transport Properties in Self-Assembled Monolayers of Biphenyl Thiols with Varying Torsion Angles. <i>Chemistry - A European Journal</i> , 2012, 18, 10335-10347.	3.3	30
103	Unravelling the conductance path through single-porphyrin junctions. <i>Chemical Science</i> , 2019, 10, 8299-8305.	7.4	30
104	In-situ formation of one-dimensional coordination polymers in molecular junctions. <i>Nature Communications</i> , 2019, 10, 262.	12.8	30
105	Selective dispersion of single-walled carbon nanotubes via easily accessible conjugated click polymers. <i>Polymer Chemistry</i> , 2012, 3, 1966.	3.9	29
106	Hydrophobic Hole-Transporting Materials Incorporating Multiple Thiophene Cores with Long Alkyl Chains for Efficient Perovskite Solar Cells. <i>Electrochimica Acta</i> , 2016, 209, 529-540.	5.2	29
107	Fast temporal fluctuations in single-molecule junctions. <i>Faraday Discussions</i> , 2006, 131, 281-289.	3.2	27
108	Tuning the charge injection of P3HT-based organic thin-film transistors through electrode functionalization with oligophenylene SAMs. <i>Journal of Materials Chemistry</i> , 2010, 20, 10798.	6.7	27

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109	Electric moments in molecule interferometry. <i>New Journal of Physics</i> , 2011, 13, 043033.	2.9	27
110	Influence of molecular weight on selective oligomer-assisted dispersion of single-walled carbon nanotubes and subsequent polymer exchange. <i>Chemical Communications</i> , 2012, 48, 2516.	4.1	27
111	Atropisomerization of di-para-substituted propyl-bridged biphenyl cyclophanes. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 110-118.	2.8	27
112	Quantum interference distinguishes between constitutional isomers. <i>Chemical Communications</i> , 2010, 46, 4145.	4.1	26
113	Scanning the Potential Energy Surface for Synthesis of Dendrimer-Wrapped Gold Clusters: Design Rules for True Single-Molecule Nanostructures. <i>ACS Nano</i> , 2012, 6, 3007-3017.	14.6	26
114	Negative Differential Photoconductance in Gold Nanoparticle Arrays in the Coulomb Blockade Regime. <i>ACS Nano</i> , 2012, 6, 4181-4189.	14.6	26
115	4,4'-Disubstituted Terpyridines and Their Homoleptic Fe ^{II} Complexes. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 3334-3347.	2.0	26
116	Chirality sensing of terpenes, steroids, amino acids, peptides and drugs with acyclic cucurbit[5]urils and molecular tweezers. <i>Chemical Communications</i> , 2020, 56, 4652-4655.	4.1	26
117	Statistical Analysis of Single-Molecule Junctions. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 2882-2884.	13.8	25
118	A rigid sublimable naphthalenediimide cyclophane as model compound for UHV STM experiments. <i>Chemical Communications</i> , 2008, , 2370.	4.1	25
119	Enantiomeric Separation of Semiconducting Single-Walled Carbon Nanotubes by Acid Cleavable Chiral Polyfluorene. <i>ACS Nano</i> , 2021, 15, 4699-4709.	14.6	25
120	Conductance properties of single-molecule junctions. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003, 18, 231-232.	2.7	24
121	Racemisation dynamics of torsion angle restricted biphenyl push-pull cyclophanes. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 86-91.	2.8	24
122	Conformationally Controlled Electron Delocalization in n-Type Rods: Synthesis, Structure, and Optical, Electrochemical, and Spectroelectrochemical Properties of Dicyanocyclophanes. <i>Chemistry - A European Journal</i> , 2011, 17, 7236-7250.	3.3	24
123	Fabrication of carbon nanotube nanogap electrodes by helium ion sputtering for molecular contacts. <i>Applied Physics Letters</i> , 2014, 104, 103102.	3.3	24
124	Inducing Axial Chirality in a Gel-Oligomer by Length Mismatch of the Oligomer Strands. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 14587-14591.	13.8	24
125	Identification of the current path for a conductive molecular wire on a tripodal platform. <i>Nanoscale</i> , 2016, 8, 10582-10590.	5.6	24
126	Determining Inversion Barriers in Atrop- isomers " A Tutorial for Organic Chemists. <i>Chimia</i> , 2016, 70, 192.	0.6	24

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127	Substitution Pattern Controlled Quantum Interference in [2.2]Paracyclophane-Based Single-Molecule Junctions. <i>Journal of the American Chemical Society</i> , 2021, 143, 13944-13951.	13.7	24
128	Direct Control of the Spatial Arrangement of Gold Nanoparticles in Organic-Inorganic Hybrid Superstructures. <i>Small</i> , 2011, 7, 920-929.	10.0	22
129	Synthesis and Optical Properties of Molecular Rods Comprising a Central Core-Substituted Naphthalenediimide Chromophore for Carbon Nanotube Junctions. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 478-496.	2.4	22
130	Porphyrins as building blocks for single-molecule devices. <i>Nanoscale</i> , 2021, 13, 15500-15525.	5.6	22
131	Potassium Cryptate of a Macrocyclic Ligand Featuring a Reducible hexakis(phenylthio)benzene electron-acceptor site. <i>Helvetica Chimica Acta</i> , 1997, 80, 2277-2285.	1.6	21
132	Redox-Active Catechol-Functionalized Molecular Rods: Suitable Protection Groups and Single-Molecule Transport Investigations. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 136-149.	2.4	21
133	Oligoaryl Cruciform Structures as Model Compounds for Coordination-Induced Single-Molecule Switches. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 833-845.	2.4	21
134	Laser-Induced Acoustic Desorption of Natural and Functionalized Biochromophores. <i>Analytical Chemistry</i> , 2015, 87, 5614-5619.	6.5	21
135	Intramolecular exchange interaction in twofold spin-labelled platinum complexes. <i>Chemical Communications</i> , 2004, , 2050-2051.	4.1	20
136	Suzuki Reactions with Stable Organic Radicals - Synthesis of Biphenyls Substituted with Nitronyl-Nitroxide Radicals. <i>European Journal of Organic Chemistry</i> , 2005, 2005, 3697-3703.	2.4	20
137	Controllability of the Coulomb charging energy in close-packed nanoparticle arrays. <i>Nanoscale</i> , 2013, 5, 10258.	5.6	20
138	Electron-Phonon Coupling in Current-Driven Single-Molecule Junctions. <i>Journal of the American Chemical Society</i> , 2020, 142, 3384-3391.	13.7	20
139	Modular Functionalization of Electrodes by Cross-Coupling Reactions at Their Surfaces. <i>Advanced Functional Materials</i> , 2011, 21, 3706-3714.	14.9	19
140	Molecular Graph Paper. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8290-8294.	13.8	19
141	Direct monitoring of opto-mechanical switching of self-assembled monolayer films containing the azobenzene group. <i>Beilstein Journal of Nanotechnology</i> , 2011, 2, 834-844.	2.8	18
142	First-principle-based MD description of azobenzene molecular rods. <i>Theoretical Chemistry Accounts</i> , 2012, 131, 1.	1.4	18
143	Photomodulation of Two-Dimensional Self-Assembly of Azobenzene-Hexa-peri-hexabenzocoronene Azobenzene Triads. <i>Chemistry of Materials</i> , 2019, 31, 6979-6985.	6.7	18
144	Rigid nitronyl-nitroxide-labelled anchoring molecules: syntheses, structural and magnetic investigations. <i>Tetrahedron Letters</i> , 2004, 45, 9623-9626.	1.4	17

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145	Dumbbells, Trikes and Quads: Organic-Inorganic Hybrid Nanoarchitectures Based on "Clicked" Gold Nanoparticles. <i>Small</i> , 2014, 10, 349-359.	10.0	17
146	Au nanoparticle scaffolds modulating intermolecular interactions among the conjugated azobenzenes chemisorbed on curved surfaces: tuning the kinetics of <i>cis</i> → <i>trans</i> isomerisation. <i>Nanoscale</i> , 2015, 7, 13836-13839.	5.6	17
147	Investigation of the geometrical arrangement and single molecule charge transport in self-assembled monolayers of molecular towers based on tetraphenylmethane tripod. <i>Electrochimica Acta</i> , 2017, 258, 1191-1200.	5.2	17
148	Chiral macrocyclic terpyridine complexes. <i>Chemical Science</i> , 2018, 9, 3837-3843.	7.4	17
149	Beyond Simple Substitution Patterns – Symmetrically Tetrasubstituted [2.2]Paracyclophanes as 3D Functional Materials. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 3073-3085.	2.4	17
150	Variation of the Ultrafast Fluorescence Quenching in 2,6-Sulfanyl-Core-Substituted Naphthalenediimides by Electron Transfer. <i>Journal of Physical Chemistry A</i> , 2010, 114, 12555-12560.	2.5	16
151	Deltoid versus Rhomboid: Controlling the Shape of Bis-ferrocene Macrocycles by the Bulkiness of the Substituents. <i>Organometallics</i> , 2017, 36, 858-866.	2.3	16
152	Preparation of Unsymmetrical Disulfides from Thioacetates and Thiosulfonates. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 6956-6960.	2.4	16
153	Iron in a Cage: Fixation of a Fe(II)tpy ₂ Complex by Fourfold Interlinking. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15947-15952.	13.8	16
154	Monitoring Solid-Phase Reactions in Self-Assembled Monolayers by Surface-Enhanced Raman Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17981-17988.	13.8	15
155	Molecular Electronics – Integration of Single Molecules in Electronic Circuits. <i>Chimia</i> , 2002, 56, 494-499.	0.6	14
156	Promoted Exchange Reaction between Alkanethiolate Self-Assembled Monolayers and an Azide-Bearing Substituent. <i>Journal of Physical Chemistry C</i> , 2016, 120, 25967-25976.	3.1	14
157	Immobilization of Zinc Porphyrin Complexes on Pyridine-Functionalized Glass Surfaces. <i>Langmuir</i> , 2010, 26, 10822-10826.	3.5	13
158	Tuning Helical Chirality in Polycyclic Ladder Systems. <i>Chemistry - A European Journal</i> , 2015, 21, 18156-18167.	3.3	13
159	A self assembled molecular zipper based on a perfluorophenyl-phenyl diacetylene motif. <i>Chemical Communications</i> , 2006, , 1862.	4.1	12
160	Watching the Gap Close. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5583-5585.	13.8	12
161	High Aspect Ratio Constructive Nanolithography with a Photo-Dimerizable Molecule. <i>Langmuir</i> , 2010, 26, 3623-3628.	3.5	12
162	Optically switchable molecular device using microsphere based junctions. <i>Applied Physics Letters</i> , 2011, 99, 233104.	3.3	12

#	ARTICLE	IF	CITATIONS
163	Add a third hook: S-acetyl protected oligophenylene pyridine dithiols as advanced precursors for self-assembled monolayers. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 2836.	2.8	12
164	Molecular dynamic staircases: all-carbon axial chiral α -Gel β -structures. <i>Chemical Science</i> , 2018, 9, 5758-5766.	7.4	12
165	Probabilistic mapping of single molecule junction configurations as a tool to achieve the desired geometry of asymmetric tripodal molecules. <i>Chemical Communications</i> , 2019, 55, 3351-3354.	4.1	12
166	The Synthesis of Molecular Rods with a Transversal Push-Pull System. <i>European Journal of Organic Chemistry</i> , 2007, 2007, 2630-2642.	2.4	11
167	Two-Dimensional Self-Assembly of Linear Molecular Rods at the Liquid/Solid Interface. <i>Langmuir</i> , 2011, 27, 1359-1363.	3.5	11
168	Highly Fluorous Porphyrins as Model Compounds for Molecule Interferometry. <i>European Journal of Organic Chemistry</i> , 2011, 2011, n/a-n/a.	2.4	11
169	Isolated facial and meridional tris(bipyridine)Ru(II) for STM studies on Au(111). <i>Chemical Communications</i> , 2013, 49, 1076-1078.	4.1	11
170	Tripodal M ^{III} Complexes on Au(111) Surfaces: Towards Molecular α -Lunar Modules. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 70-79.	2.0	11
171	Electron transport through catechol-functionalized molecular rods. <i>Electrochimica Acta</i> , 2013, 110, 709-717.	5.2	11
172	A Tripodal Molecule on a Gold Surface: Orientation-Dependent Coupling and Electronic Properties of the Molecular Legs. <i>ACS Nano</i> , 2013, 7, 6170-6180.	14.6	11
173	Tailoring the volatility and stability of oligopeptides. <i>Journal of Mass Spectrometry</i> , 2017, 52, 550-556.	1.6	11
174	Isotope-selective high-order interferometry with large organic molecules in free fall. <i>New Journal of Physics</i> , 2018, 20, 033016.	2.9	11
175	Enhanced Separation Concept (ESC): Removing the Functional Subunit from the Electrode by Molecular Design. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 5334-5343.	2.4	11
176	Six state molecular revolver mounted on a rigid platform. <i>Nanoscale</i> , 2019, 11, 9015-9022.	5.6	11
177	Magnetic-Field Universality of the Kondo Effect Revealed by Thermocurrent Spectroscopy. <i>Physical Review Letters</i> , 2022, 128, 147701.	7.8	11
178	Molecular Daisy Chains: Synthesis and Aggregation Studies of an Amphiphilic Molecular Rod. <i>Chemistry - A European Journal</i> , 2013, 19, 2089-2101.	3.3	10
179	Single-Photon Ionization of Organic Molecules Beyond 10 ⁴ Da. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 602-608.	2.8	10
180	Controlled assembly and single electron charging of monolayer protected Au ₁₄₄ clusters: an electrochemistry and scanning tunneling spectroscopy study. <i>Nanoscale</i> , 2014, 6, 15117-15126.	5.6	10

#	ARTICLE	IF	CITATIONS
181	A Molecular Turnstile as an <i>E</i> -Field-Triggered Single-Molecule Switch: Concept and Synthesis. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 3165-3178.	2.4	10
182	Pushing the mass limit for intact launch and photoionization of large neutral biopolymers. <i>Communications Chemistry</i> , 2018, 1, .	4.5	10
183	Degradable Fluorene- and Carbazole-Based Copolymers for Selective Extraction of Semiconducting Single-Walled Carbon Nanotubes. <i>Macromolecules</i> , 2021, 54, 4363-4374.	4.8	10
184	Mechanical conductance tunability of a porphyrin-cyclophane single-molecule junction. <i>Nanoscale</i> , 2022, 14, 984-992.	5.6	10
185	STM Investigation of Large π -Conjugated Oligomers and Tetrahydrofuran Codeposited on Cu(111) by Pulse Injection. <i>Journal of Physical Chemistry C</i> , 2009, 113, 14335-14340.	3.1	9
186	Loops versus Stems: Benzylic Sulfide Oligomers Forming Carpet Type Monolayers. <i>Journal of Physical Chemistry C</i> , 2010, 114, 4118-4125.	3.1	9
187	Increased efficiency of light-emitting diodes incorporating anodes functionalized with fluorinated azobenzene monolayers and a green-emitting polyfluorene derivative. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	9
188	Synthesis and Solid-State Investigations of Oligo-Phenylene-Ethynylene Structures with Halide End-Groups. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 2738-2747.	2.4	9
189	Synthesis of Highly Fluoroalkyl-Functionalized Oligoporphyrin Systems. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 6884-6895.	2.4	9
190	Activation enthalpies and entropies of the atropisomerization of substituted butyl-bridged biphenyls. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 11165-11173.	2.8	9
191	Through the Maze: Cross-Coupling Pathways to a Helical Hexaphenyl π -Gel-Molecule. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 786-801.	2.4	9
192	Sequential nested assembly at the liquid/solid interface. <i>Faraday Discussions</i> , 2017, 204, 173-190.	3.2	9
193	Synthesis of trinorbornane. <i>Chemical Communications</i> , 2017, 53, 11399-11402.	4.1	9
194	Tailored photocleavable peptides: fragmentation and neutralization pathways in high vacuum. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 11412-11417.	2.8	9
195	Controlling the Entropy of a Single-Molecule Junction. <i>Nano Letters</i> , 2021, 21, 9715-9719.	9.1	9
196	Synthesis of Vitamin B12 Derivatives with a Peripheral Metal Binding Site. <i>Helvetica Chimica Acta</i> , 1997, 80, 1183-1189.	1.6	8
197	Electron Transfer Through Bridging Molecular Structures. <i>Annals of the New York Academy of Sciences</i> , 2002, 960, 16-28.	3.8	8
198	Stability of high-mass molecular libraries: the role of the oligoporphyrin core. <i>Journal of Mass Spectrometry</i> , 2015, 50, 235-239.	1.6	8

#	ARTICLE	IF	CITATIONS
199	Assembly of [2]Rotaxanes in Water. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 4091-4103.	2.4	8
200	Aqueous Assembly of Zwitterionic Daisy Chains. <i>Chemistry - A European Journal</i> , 2019, 25, 285-295.	3.3	8
201	Improved Photostability of a Cu I Complex by Macrocyclization of the Phenanthroline Ligands. <i>Chemistry - A European Journal</i> , 2020, 26, 3119-3128.	3.3	8
202	Nanoparticles to Hybrid Organic-Inorganic Superstructures. <i>Chimia</i> , 2011, 65, 219-222.	0.6	7
203	STM study of oligo(phenylene-ethynylene)s. <i>New Journal of Physics</i> , 2015, 17, 053043.	2.9	7
204	Molekulares Kästchenpapier. <i>Angewandte Chemie</i> , 2017, 129, 8405-8410.	2.0	7
205	Matterâ€™s wave interference and deflection of tripeptides decorated with fluorinated alkyl chains. <i>Journal of Mass Spectrometry</i> , 2020, 55, e4514.	1.6	7
206	Mechanical compression in cofacial porphyrin cyclophane pincers. <i>Chemical Science</i> , 2022, 13, 8017-8024.	7.4	7
207	Novel Cruciform Structures as Model Compounds for Coordination Induced Single Molecule Switches. <i>Chimia</i> , 2010, 64, 140.	0.6	6
208	Bestowing structure upon the pores of a supramolecular network. <i>Chemical Communications</i> , 2014, 50, 14175-14178.	4.1	6
209	Selective photodissociation of tailored molecular tags as a tool for quantum optics. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 325-333.	2.8	6
210	Gold Nanoparticles Stabilized by Single Tripodal Ligands. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1800015.	2.3	6
211	Tuning the contact conductance of anchoring groups in single molecule junctions by molecular design. <i>Nanoscale</i> , 2019, 11, 12959-12964.	5.6	6
212	A Chiral Macrocyclic Oligothiophene with Broken Conjugation â€™ Rapid Racemization through Internal Rotation. <i>Helvetica Chimica Acta</i> , 2019, 102, e1800205.	1.6	6
213	Mechanical Fixation by Porphyrin Connection: Synthesis and Transport Studies of a Bicyclic Dimer. <i>Journal of Organic Chemistry</i> , 2020, 85, 118-128.	3.2	6
214	Automated, 3â€™ and Subâ€™micron Accurate Ablationâ€™ Volume Determination by Inverse Molding and Xâ€™ray Computed Tomography. <i>Advanced Science</i> , 2022, 9, e2200136.	11.2	6
215	Molekulare Elektronik. <i>Nachrichten Aus Der Chemie</i> , 2002, 50, 1212-1217.	0.0	5
216	Nanopatterning by Molecular Self-assembly on Surfaces. <i>Chimia</i> , 2013, 67, 222-226.	0.6	5

#	ARTICLE	IF	CITATIONS
217	Linear Tetraphenylmethane-Based Thioether Oligomers Stabilising an Entire Gold Nanoparticle by Enwrapping. <i>Chemistry - A European Journal</i> , 2016, 22, 2261-2265.	3.3	5
218	Adatom Coadsorption with Three-Dimensional Cyclophanes on Ag(111). <i>Journal of Physical Chemistry C</i> , 2017, 121, 25303-25308.	3.1	5
219	A Phenyl-Ethynyl-Macrocyclic Model Compound for Gel-Oligomers Comprising Reactive Conjugated Banisters. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 3391-3402.	2.4	5
220	Electrochemical Multiplexing: Control over Surface Functionalization by Combining a Redox-Sensitive Alkyne Protection Group with Click-Chemistry. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801917.	3.7	5
221	Molecular Ansa-Basket: Synthesis of Inherently Chiral All-Carbon [12](1,6)Pyrenophane. <i>Journal of Organic Chemistry</i> , 2019, 84, 5271-5276.	3.2	5
222	Neutralization of insulin by photocleavage under high vacuum. <i>Chemical Communications</i> , 2019, 55, 12507-12510.	4.1	5
223	Synthesis and Transport Studies of a Cofacial Porphyrin Cyclophane. <i>Journal of Organic Chemistry</i> , 2020, 85, 15072-15081.	3.2	5
224	Supramolecular Functional Materials: A National Research Program Paves the Way to the Scientific Future. <i>Advanced Functional Materials</i> , 2006, 16, 143-145.	14.9	4
225	Rotationally Restricted 1,1-Bis(phenylethynyl)ferrocene Subunits in Macrocycles. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 2187-2199.	2.4	4
226	Iron in a Cage: Fixation of a Fe(II)tpy ₂ Complex by Fourfold Interlinking. <i>Angewandte Chemie</i> , 2020, 132, 16081-16086.	2.0	4
227	Addressing a lattice of rotatable molecular dipoles with the electric field of an STM tip. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 4874-4881.	2.8	4
228	Bicyclic Phenyl-Ethynyl Architectures: Synthesis of a 1,4-Bis(phenylbutadiynyl) Benzene Banister. <i>Chemistry - A European Journal</i> , 2021, 27, 6295-6307.	3.3	4
229	Synthesis and Surface Behaviour of NDI Chromophores Mounted on a Tripodal Scaffold: Towards Self-Decoupled Chromophores for Single-Molecule Electroluminescence. <i>Chemistry - A European Journal</i> , 2021, 27, 12144-12155.	3.3	4
230	Ultraflat nanopores for wafer-scale molecular-electronic applications. , 2015, , .		3
231	Size Matters: Influence of Gold-Ligand Ratio and Sulfur-Sulfur Distance of Linear Thioether Heptamers on the Size of Gold Nanoparticles. <i>Helvetica Chimica Acta</i> , 2017, 100, e1600395.	1.6	3
232	Slow Formation of Pseudorotaxanes in Water. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 3384-3390.	2.4	3
233	The Enantiomers of Trinorbornane and Derivatives Thereof. <i>Helvetica Chimica Acta</i> , 2020, 103, e2000019.	1.6	3
234	Sulfone Helices: Revealing Unexpected Parameters Controlling the Enantiomerization Process. <i>Journal of Organic Chemistry</i> , 2021, 86, 5431-5442.	3.2	3

#	ARTICLE	IF	CITATIONS
235	Monofunctionalized Gold Nanoparticles: Fabrication and Applications. <i>Chimia</i> , 2021, 75, 414.	0.6	3
236	Reaktionsverfolgung von Festphasensynthesen in selbstassemblierenden Monolagen mit oberflächenverstärkter Raman-Spektroskopie. <i>Angewandte Chemie</i> , 2021, 133, 18126-18134.	2.0	3
237	An Ortho-Tetraphenylene-Based Gel Architecture Consisting Exclusively of 52 sp ² Hybridized C _{3.3} Atoms. <i>Chemistry - A European Journal</i> , 2021, 27, 13258-13267.	3.3	3
238	From the Loom to the Laboratory: Molecular Textiles. <i>Chimia</i> , 2019, 73, 455.	0.6	3
239	Electronic responses of donor acceptor substituted twisted biphenyls. <i>Proceedings of SPIE</i> , 2010, , .	0.8	2
240	Long-pulse laser launch and ionization of tailored large neutral silver nanoparticles with atomic mass assignment. <i>Nanoscale</i> , 2017, 9, 9175-9180.	5.6	2
241	Alkyne-Monofunctionalized Gold Nanoparticles as Massive Molecular Building Blocks. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 2325-2334.	2.0	2
242	Scalable, Nanometer-Accurate Fabrication of All-Dielectric Metasurfaces with Narrow Resonances Tunable from Near Infrared to Visible Wavelengths. <i>Advanced Photonics Research</i> , 0, , 2200014.	3.6	2
243	Functional Nanopores: A Solid-state Concept for Artificial Reaction Compartments and Molecular Factories. <i>Chimia</i> , 2016, 70, 432.	0.6	1
244	Aqueous assembly of a (pseudo)rotaxane with a donor-acceptor axis formed by a Knoevenagel condensation. <i>Organic Chemistry Frontiers</i> , 2021, 8, 4399-4407.	4.5	1
245	Bromine-Catalyzed Conversion of S-tert-Butyl Groups into Versatile and, for Self-Assembly Processes Accessible, Acetyl-Protected Thiols.. <i>ChemInform</i> , 2005, 36, no.	0.0	0
246	Matter wave interferometry: Exploring the importance of the internal molecular properties. , 2011, , .		0
247	2-(3-Cyanopropyl)dimethylsilyl)ethyl as a Polar Sulfur Protecting Group. <i>Synthesis</i> , 2019, 51, 4153-4164.	2.3	0
248	Otto Stern's Legacy in Quantum Optics: Matter Waves and Deflectometry. , 2021, , 547-573.		0
249	Induced axial chirality by a tight belt: naphthalene chromophores fixed in a 2,5-substituted cofacial <i>para</i> -phenylene-ethynylene framework. <i>Journal of Materials Chemistry C</i> , 2021, 9, 16199-16207.	5.5	0
250	Naphthalene Bisimides on the Way to Opto-electronic Devices. , 2007, , .		0
251	Naphthalene Bisimides: on the Way to Ultrafast Opto-electronic Devices. <i>Springer Series in Chemical Physics</i> , 2009, , 628-630.	0.2	0
252	Frontispiece: Spatial and Lateral Control of Functionality by Rigid Molecular Platforms. <i>Chemistry - A European Journal</i> , 2017, 23, .	3.3	0

#	ARTICLE	IF	CITATIONS
253	Vibrational Excitations & Conformational Switching in Single-Molecule Junctions. , 0, , .		0
254	Vibrational Excitations & Conformational Switching in Single-Molecule Junctions. , 0, , .		0