## Gwenael Rapenne

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Desymmetrised pentaporphyrinic gears mounted on metallo-organic anchors. Chemical Science, 2021, 12, 4709-4721.	3.7	15
2	Photophysical properties of 1,2,3,4,5-pentaarylcyclopentadienyl–hydrotris(indazolyl)borate ruthenium( <scp>ii</scp> ) complexes. Physical Chemistry Chemical Physics, 2021, 23, 17049-17056.	1.3	1
3	Ruthenium complexes of sterically-hindered pentaarylcyclopentadienyl ligands. RSC Advances, 2021, 11, 20207-20215.	1.7	Ο
4	Molecular Rotor Functionalized with a Photoresponsive Brake. Inorganic Chemistry, 2021, 60, 3492-3501.	1.9	10
5	Molecular Gears: From Solution to Surfaces. Chemistry - A European Journal, 2021, 27, 12019-12031.	1.7	20
6	Frontispiece: Molecular Gears: From Solution to Surfaces. Chemistry - A European Journal, 2021, 27, .	1.7	0
7	Divergent Synthesis of Molecular Winch Prototypes. Chemistry - A European Journal, 2021, 27, 16242-16249.	1.7	2
8	Energy Storage upon Photochromic 6-Ï€ Photocyclization and Efficient On-Demand Heat Release with Oxidation Stimuli. Journal of Physical Chemistry Letters, 2021, 12, 11391-11398.	2.1	7
9	Nanocars based on Polyaromatic or Porphyrinic Chassis. Yuki Gosei Kagaku Kyokaishi/Journal of Synthetic Organic Chemistry, 2021, 79, 1050-1055.	0.0	Ο
10	Invited: Prototypes of molecular machines: motors, gears and vehicles. , 2021, , .		0
11	Mechanics of Molecule-Gears with Six Long Teeth. Journal of Physical Chemistry C, 2020, 124, 22625-22630.	1.5	10
12	Transmitting Stepwise Rotation among Three Molecule-Gear on the Au(111) Surface. Journal of Physical Chemistry Letters, 2020, 11, 6892-6899.	2.1	19
13	Dipolar Nanocars Based on a Porphyrin Backbone. Chemistry - A European Journal, 2020, 26, 11913-11913.	1.7	1
14	Systematic studies of structural variations in terarylene photohydride generators. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 397, 112594.	2.0	1
15	Dipolar Nanocars Based on a Porphyrin Backbone. Chemistry - A European Journal, 2020, 26, 12010-12018.	1.7	11
16	Design and Synthesis of a Nano-winch. Advances in Atom and Single Molecule Machines, 2020, , 81-98.	0.0	0
17	Prototypes of Molecular Gears with an Organometallic Piano-Stool Architecture. Advances in Atom and Single Molecule Machines, 2020, , 65-80.	0.0	0
18	A chiral molecular propeller designed for unidirectional rotations on a surface. Nature Communications, 2019, 10, 3742.	5.8	58

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19	Star‣haped Ruthenium Complexes as Prototypes of Molecular Gears. Chemistry - A European Journal, 2019, 25, 16328-16339.	1.7	21
20	Biomimetic and Technomimetic Single Molecular Machines. Chemistry Letters, 2019, 48, 299-308.	0.7	20
21	Photochromic Diarylethenes Designed for Surface Deposition: From Selfâ€Assembled Monolayers to Single Molecules. ChemPlusChem, 2019, 84, 564-577.	1.3	6
22	Modular synthesis of pentaarylcyclopentadienyl Ru-based molecular machines <i>via</i> sequential Pd-catalysed cross couplings. Chemical Communications, 2019, 55, 14689-14692.	2.2	23
23	Hierarchical Emergence and Dynamic Control of Chirality in a Photoresponsive Dinuclear Complex. Journal of Physical Chemistry Letters, 2018, 9, 2151-2157.	2.1	25
24	Recent progress in development of photoacid generators. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2018, 34, 41-51.	5.6	90
25	Adsorption of Terarylenes on Ag(111) and NaCl(001)/Ag(111): A Scanning Tunneling Microscopy and Density Functional Theory Study. Journal of Physical Chemistry C, 2018, 122, 5978-5991.	1.5	4
26	Rotative Single Molecular Motors on Metallic Surfaces. , 2018, , 803-809.		1
27	Surface manipulation of a curved polycyclic aromatic hydrocarbon-based nano-vehicle molecule equipped with triptycene wheels. Nanotechnology, 2018, 29, 495401.	1.3	11
28	Terarylenes as Photoactivatable Hydride Donors. Journal of Organic Chemistry, 2018, 83, 13700-13706.	1.7	15
29	Expedient Synthesis of Thioetherâ€Functionalized Hydrotris(indazolyl)borate as an Anchoring Platform for Rotary Molecular Machines. European Journal of Organic Chemistry, 2018, 2018, 4731-4739.	1.2	14
30	From the Synthesis of Nanovehicles to Participation in the First Nanocar Race—View from the French Team. Molecules, 2018, 23, 612.	1.7	15
31	Synthesis and Photochromism of Chloro―and <i>tert</i> â€Butylâ€Functionalized Terarylene Derivatives for Surface Deposition. European Journal of Organic Chemistry, 2017, 2017, 2451-2461.	1.2	11
32	Scanning Tunneling Microscope Tip-Induced Formation of a Supramolecular Network of Terarylene Molecules on Cu(111). Journal of Physical Chemistry C, 2017, 121, 25384-25389.	1.5	10
33	The first nanocar race. Nature Reviews Materials, 2017, 2, .	23.3	65
34	Scorpionate Hydrotris(indazolyl)borate Ligands as Tripodal Platforms for Surface-Mounted Molecular Gears and Motors. European Journal of Inorganic Chemistry, 2016, 2016, 2203-2203.	1.0	0
35	Simultaneous and coordinated rotational switching of all molecular rotors in a network. Nature Nanotechnology, 2016, 11, 706-712.	15.6	84
36	Scorpionate Hydrotris(indazolyl)borate Ligands as Tripodal Platforms for Surfaceâ€Mounted Molecular Gears and Motors. European Journal of Inorganic Chemistry, 2016, 2016, 2214-2226.	1.0	24

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37	Dual Photochemical Bond Cleavage for a Diarylethene-Based Phototrigger Containing both Methanolic and Acetic Sources. Journal of Organic Chemistry, 2016, 81, 11282-11290.	1.7	25
38	Controlled Directional Motions of Molecular Vehicles, Rotors, and Motors: From Metallic to Silicon Surfaces, a Strategy to Operate at Higher Temperatures. ChemPhysChem, 2016, 17, 1742-1751.	1.0	16
39	Synthesis of Functionalized Monoâ€, Bisâ€, and Trisethynyltriptycenes for Oneâ€Dimensional Selfâ€Assembly on Surfaces. Chemistry - A European Journal, 2015, 21, 15013-15019.	1.7	6
40	Improved synthesis of 6-[(ethylthio)methyl]-1 <i>H</i> -indazole. Heterocyclic Communications, 2015, 21, 5-8.	0.6	4
41	Desymmetrization on both ligands of pentaphenylcyclopentadienylhydrotris(indazolyl) borate ruthenium(II) complexes: Prototypes of organometallic molecular gears and motors. Coordination Chemistry Reviews, 2015, 287, 79-88.	9.5	19
42	Triptycene or Subphthalocyanine Wheels and Polyaromatic Hydrocarbon Nanovehicles. Advances in Atom and Single Molecule Machines, 2015, , 65-79.	0.0	0
43	Single-Molecular Motors and Gears Based on Star-shaped Ruthenium Complexes. Advances in Atom and Single Molecule Machines, 2015, , 109-126.	0.0	0
44	Single Rotating Molecule-Machines: Nanovehicles and Molecular Motors. Topics in Current Chemistry, 2014, 354, 253-277.	4.0	13
45	Directional molecular sliding at room temperature on a silicon runway. Nanoscale, 2013, 5, 7005.	2.8	20
46	Controlled clockwise and anticlockwise rotational switching of aÂmolecular motor. Nature Nanotechnology, 2013, 8, 46-51.	15.6	240
47	Molecule Concept Nanocars: Chassis, Wheels, and Motors?. ACS Nano, 2013, 7, 11-14.	7.3	85
48	STM manipulation of a subphthalocyanine double-wheel molecule on Au(111). Journal of Physics Condensed Matter, 2012, 24, 404001.	0.7	15
49	Synthesis and STM Imaging of Symmetric and Dissymmetric Ethynylâ€Bridged Dimers of Boron–Subphthalocyanine Bowlâ€Shaped Nanowheels. Chemistry - A European Journal, 2012, 18, 8925-8928.	1.7	32
50	Synthesis and electrochemical characteristics of a donor–acceptor porphyrinate rotor mounted on a naphthalocyaninato europium complex. Inorganica Chimica Acta, 2012, 380, 181-186.	1.2	7
51	Synthesis of Polycyclic Aromatic Hydrocarbonâ€Based Nanovehicles Equipped with Triptycene Wheels. Chemistry - A European Journal, 2012, 18, 3023-3031.	1.7	34
52	Synthesis of a photoswitchable azobenzene-functionalized tris(indazol-1-yl) borate ligand and its ruthenium(II) cyclopentadienide complex. Tetrahedron, 2010, 66, 1885-1891.	1.0	9
53	Regioselectivity in Tetherâ€Directed Remote Functionalization – The Addition of a Cyclotriveratryleneâ€Based Trimalonate to C <sub>60</sub> Revisited. European Journal of Organic Chemistry, 2010, 2010, 4402-4411.	1.2	11
54	Bridging the Gap: Making the Link in Mechanically Interlocked Chiral Molecules. Angewandte Chemie - International Edition, 2010, 49, 8792-8794.	7.2	6

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55	Synthesis of substituted indazoles and their corresponding tris(indazolyl)borate tripodal ligands as key building blocks for molecular motors. Inorganica Chimica Acta, 2009, 362, 4276-4283.	1.2	8
56	Synthesis and analytical resolution of chiral pyrazoles derived from (5R)-dihydrocarvone. New Journal of Chemistry, 2009, 33, 293-299.	1.4	12
57	Prototypes of molecular motors based on star-shaped organometallic ruthenium complexes. Chemical Society Reviews, 2009, 38, 1551.	18.7	80
58	The chemistry of 1,2,3,4,5-pentaphenylcyclopentadienyl hydrotris(indazolyl)borate ruthenium(II) complexes, building blocks for the construction of potential organometallic molecular motors. Coordination Chemistry Reviews, 2008, 252, 1451-1459.	9.5	36
59	Synthesis and Reactivity of [Penta(4â€halogenophenyl)cyclopentadienyl][hydrotris(indazolyl)borato]ruthenium(II) Complexes: Rotationâ€Induced Fosbury Flop in an Organometallic Molecular Turnstile. Chemistry - A European Journal. 2008. 14. 8147-8156.	1.7	50
60	Roomâ€Temperature Electronic Template Effect of the SmSi(111)â€8×2 Interface for Selfâ€Alignment of Organic Molecules. ChemPhysChem, 2008, 9, 1437-1441.	1.0	20
61	Directed synthesis of symmetric and dissymmetric molecular motors built around a ruthenium cyclopentadienyl tris(indazolyl)borate complex. Tetrahedron, 2008, 64, 11462-11468.	1.0	39
62	A family of electron-triggered molecular motors based on aromatic building blocks. Pure and Applied Chemistry, 2008, 80, 659-667.	0.9	11
63	Electron-triggered motions in technomimetic molecules. Dalton Transactions, 2007, , 177-186.	1.6	46
64	Synthesis of Molecular Motors Incorporatingpara-Phenylene-Conjugated or Bicyclo[2.2.2]octane-Insulated Electroactive Groups. Chemistry - A European Journal, 2007, 13, 5622-5631.	1.7	44
65	Molecular machines: synthesis and characterization of two prototypes of molecular wheelbarrows. Tetrahedron, 2007, 63, 7018-7026.	1.0	60
66	A Morse manipulator molecule for the modulation of metallic shockley surface states. Chemical Physics Letters, 2007, 434, 280-285.	1.2	4
67	Rolling a single molecular wheel at the atomic scale. Nature Nanotechnology, 2007, 2, 95-98.	15.6	177
68	HPLC separation and VCD spectroscopy of chiral pyrazoles derived from (5R)-dihydrocarvone. Tetrahedron: Asymmetry, 2007, 18, 1911-1917.	1.8	11
69	A star-shaped ruthenium complex with five ferrocenyl-terminated arms bridged by trans-platinum fragments. Chemical Communications, 2006, , 2283.	2.2	43
70	Synthesis of triester-functionalized molecular motors incorporating bis-acetylide trans-platinum insulating fragments. New Journal of Chemistry, 2006, 30, 1429.	1.4	50
71	Launching and landing single molecular wheelbarrows on a Cu(100) surface. Chemical Physics Letters, 2006, 431, 219-222.	1.2	18
72	Breaking the symmetry in the molecular motor family: synthesis of a dissymmetrized pentaphenyl cyclopentadienyl ligand and its ruthenium tris(indazolyl)borate complex. Tetrahedron Letters, 2006, 47, 8741-8744.	0.7	11

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73	Synthesis of New Tripodal Tri-Functionalized Hydrotris(indazol-1-yl)borate Ligands and X-ray Structures of Their Cyclopentadieneruthenium Complexes. European Journal of Inorganic Chemistry, 2006, 2006, 980-987.	1.0	36
74	Design and synthesis of mono-molecular machines. Journal of Physics Condensed Matter, 2006, 18, S1797-S1808.	0.7	11
75	Imaging of a molecular wheelbarrow by scanning tunneling microscopy. Surface Science, 2005, 584, L153-L158.	0.8	74
76	Synthesis of technomimetic molecules: towards rotation control in single-molecular machines and motors. Organic and Biomolecular Chemistry, 2005, 3, 1165.	1.5	83
77	Design and synthesis of the active part of a potential molecular motor. New Journal of Chemistry, 2005, 29, 288.	1.4	56
78	Progress Towards a Rotary Molecular Motor. AIP Conference Proceedings, 2004, , .	0.3	0
79	Molecular-Scale Rotation Movement: Synthesis of Molecular Motors. ChemInform, 2004, 35, no.	0.1	Ο
80	Technomimetic molecules: synthesis of a molecular wheelbarrow. Tetrahedron Letters, 2003, 44, 6261-6263.	0.7	75
81	Technomimetic molecules: synthesis of ruthenium(ii) 1,2,3,4,5-penta(p-bromophenyl)cyclopentadienyl hydrotris(indazolyl)borate, an organometallic molecular turnstile. Chemical Communications, 2003, , 2434.	2.2	70
82	Machines moléculaires : mécanique des molécules. J3eA, 2003, 2, 003.	0.0	0
83	The design of a nanoscale molecular barrow. Nanotechnology, 2002, 13, 330-335.	1.3	69
84	Title is missing!. Helvetica Chimica Acta, 2000, 83, 1209-1223.	1.0	18
85	Chiroptical Properties of an Optically Pure Dicopper(I) Trefoil Knot and Its Enantioselectivity in Luminescence Quenching Reactions. Chemistry - A European Journal, 2000, 6, 2129-2134.	1.7	57
86	Chiroptical Properties of an Optically Pure Dicopper(I) Trefoil Knot and Its Enantioselectivity in Luminescence Quenching Reactions. , 2000, 6, 2129.		1
87	Synthesis of catenanes and molecular knots by copper(I)-directed formation of the precursors followed by ruthenium(II)-catalysed ring-closing metathesis. Coordination Chemistry Reviews, 1999, 185-186, 167-176.	9.5	67
88	A Dicopper(I) Trefoil Knot withm-Phenylene Bridges between the Ligand Subunits: Synthesis, Resolution, and Absolute Configuration. Chemistry - A European Journal, 1999, 5, 1432-1439.	1.7	66
89	A new synthon for the incorporation of [60]fullerene in macrocycles. New Journal of Chemistry, 1999, 23, 1125-1127.	1.4	6
90	Regioselective one-step synthesis of trans-3,trans-3,trans-3 and e,e,e [60]fullerene tris-adducts directed by a C3-symmetrical cyclotriveratrylene tether. Chemical Communications, 1999, , 1121-1122.	2.2	38

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91	Resolution, X-ray structure and absolute configuration of a double-stranded helical diiron(II) bis(terpyridine) complex. Chemical Communications, 1999, , 1853-1854.	2.2	29
92	Copper(I)- or Iron(II)-Templated Synthesis of Molecular Knots Containing Two Tetrahedral or Octahedral Coordination Sites. Journal of the American Chemical Society, 1999, 121, 994-1001.	6.6	172
93	Resolution of topologically chiral molecular objects. Chirality, 1998, 10, 125-133.	1.3	23
94	Resolution of topologically chiral molecular objects. Chirality, 1998, 10, 125-133.	1.3	30
95	Efficient synthesis of a molecular knot by copper(I)-induced formation of the precursor followed by ruthenium(II)-catalysed ring closing metathesis. Chemical Communications, 1997, , 2053-2054.	2.2	114
96	Resolution of a Molecular Trefoil Knot. Journal of the American Chemical Society, 1996, 118, 10932-10933.	6.6	80