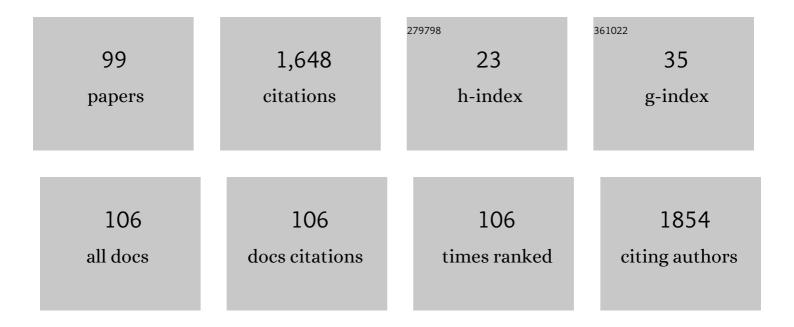
## Frederic Cherioux

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	New Octupolar Star-Shaped Strucures for Quadratic Nonlinear Optics. Chemistry of Materials, 1999, 11, 1915-1920.	6.7	108
2	Robust and Open Tailored Supramolecular Networks Controlled by the Template Effect of a Silicon Surface. Angewandte Chemie - International Edition, 2011, 50, 4094-4098.	13.8	80
3	Synthesis and Electrochemical Properties of Novel 1,3,5-Tris(oligothienyl)benzenes: A New Generation of 3D Reticulating Agents. Advanced Functional Materials, 2001, 11, 305-309.	14.9	73
4	1D and 3D surface-assisted self-organization. Coordination Chemistry Reviews, 2012, 256, 2872-2892.	18.8	55
5	Synthesis and characterisation of an octupolar polymer and new molecular octupoles with off-resonant third order optical nonlinearities. Chemical Communications, 1999, , 2083-2084.	4.1	52
6	Remarkable Anticancer Activity of Triruthenium-Arene Clusters Compared to Tetraruthenium-Arene Clusters. Journal of Cluster Science, 2007, 18, 741-752.	3.3	49
7	Noncovalent Bicomponent Self-Assemblies on a Silicon Surface. ACS Nano, 2012, 6, 6905-6911.	14.6	46
8	New Third-Order Nonlinear Polymers Functionalized with Disperse Red and Disperse Orange Chromophores with Increased Stability. Chemistry of Materials, 1997, 9, 2921-2927.	6.7	43
9	Synthesis and electrochemical properties of new star-shaped thiophene oligomers and their polymers. Chemical Communications, 1998, , 2225-2226.	4.1	41
10	Complete Supramolecular Self-Assembled Adlayer on a Silicon Surface at Room Temperature. Journal of the American Chemical Society, 2008, 130, 6670-6671.	13.7	39
11	Surface-Induced Optimal Packing of Two-Dimensional Molecular Networks. Physical Review Letters, 2015, 114, 066101.	7.8	39
12	Micrometre-long covalent organic fibres by photoinitiated chain-growth radical polymerization on an alkali-halide surface. Nature Chemistry, 2018, 10, 1112-1117.	13.6	38
13	A Stable Roomâ€Temperature Molecular Assembly of Zwitterionic Organic Dipoles Guided by a Si(111)â€₹×7 Template Effect. Angewandte Chemie - International Edition, 2007, 46, 9287-9290.	13.8	32
14	Nondestructive Room-Temperature Adsorption of2,4,6-tri(2′-thienyl)â^'1,3,5-triazineon a Si-B Interface: High-Resolution STM Imaging and Molecular Modeling. Physical Review Letters, 2008, 100, 076405.	7.8	30
15	Energy funnelling within multichromophore architectures monitored with subnanometre resolution. Nature Chemistry, 2021, 13, 766-770.	13.6	30
16	Supramolecular self-assembly on the B-Si(111)-(â^š3xâ^š3) R30° surface: From single molecules to multicomponent networks. Surface Science Reports, 2017, 72, 316-349.	7.2	29
17	Synthesis, Electrochemical Properties, and Molecular Computations of New Tris(thienyl)methyl Cations. Advanced Materials, 1998, 10, 1013-1018.	21.0	27
18	New Star-Shaped Molecules with Extended Electronic Delocalization. Chemistry of Materials, 1998, 10, 1984-1989.	6.7	27

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19	Atomic Scale Modeling of Two-Dimensional Molecular Self-Assembly on a Passivated Si Surface. Journal of Physical Chemistry C, 2014, 118, 12817-12825.	3.1	27
20	Symmetric and Asymmetric Conjugated 3,3′-Bipyridine Derivatives as a New Class of Third-Order NLO Chromophores with an Enhanced Non-resonant, Nonlinear Refractive Index in the Picosecond Range. Advanced Functional Materials, 2002, 12, 203.	14.9	26
21	Reversible Photoswitching of Azobenzene-Based Monolayers Physisorbed on a Mica Surface. Langmuir, 2010, 26, 943-949.	3.5	25
22	Subsurface H <sub>2</sub> S Detection by a Surface Acoustic Wave Passive Wireless Sensor Interrogated with a Ground Penetrating Radar. ACS Sensors, 2020, 5, 1075-1081.	7.8	24
23	First Star-Like Oligophenylene Molecules Containing a Dinuclear Organometallic Core. European Journal of Inorganic Chemistry, 2003, 2003, 1043-1047.	2.0	23
24	Detection and High-Precision Positioning of Liquid Droplets Using SAW Systems. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2007, 54, 2146-2151.	3.0	23
25	Supramolecular self-assembly of brominated molecules on a silicon surface. Chemical Communications, 2014, 50, 5714.	4.1	22
26	Dendritic Systems Based on Dinuclear Ruthenium or Rhodium Units Generating Peripheral Catalytic Sites. Chemistry - A European Journal, 2002, 8, 4377-4382.	3.3	21
27	Reactivity of the Unsaturated Complex [(C6Me6)2Ru2(μ2-H)3]+toward Phosphines: Synthesis and Molecular Structure of the Dinuclear Cations [(C6Me6)2Ru2(μ2-PR2)(μ2-H)2]+and Characterization of the Pâ <sup>°</sup> C Bond Activation Intermediate [(C6Me6)2Ru2(μ2-PPh2)(μ2-H)(μ2-Ph)]+â€. Organometallics, 2005, 1 1974-1981.	2 <b>4</b> , <sup>3</sup>	21
28	Specific reactivity of SH versus OH functions towards dinuclear arene ruthenium units: synthesis of cationic complexes of the type [(arene)2Ru2(SR)3]+. Polyhedron, 2003, 22, 543-548.	2.2	20
29	Roomâ€Temperature Electronic Template Effect of the SmSi(111)â€8×2 Interface for Selfâ€Alignment of Organic Molecules. ChemPhysChem, 2008, 9, 1437-1441.	2.1	20
30	Directional molecular sliding at room temperature on a silicon runway. Nanoscale, 2013, 5, 7005.	5.6	20
31	Molecular Design and Control Over the Morphology of Selfâ€Assembled Films on Ionic Substrates. Advanced Materials Interfaces, 2014, 1, 1400414.	3.7	19
32	Photochemistry Highlights on Onâ€Surface Synthesis. ChemPhysChem, 2019, 20, 2271-2280.	2.1	19
33	Easy and versatile functionalization of lithium niobate wafers by hydrophobic trichlorosilanes. Applied Surface Science, 2008, 255, 1796-1800.	6.1	18
34	Dipole-driven self-organization of zwitterionic molecules on alkali halide surfaces. Beilstein Journal of Nanotechnology, 2012, 3, 285-293.	2.8	18
35	Tailored Molecular Design for Supramolecular Network Engineering on a Silicon Surface. ChemPhysChem, 2013, 14, 900-904.	2.1	18
36	Synthesis and structural characterisation of new cationic dinuclear ruthenium(II) thiolato complexes of the type [Ru2(η6-arene)2(μ-p-S–C6H4–Br)3]+. Inorganica Chimica Acta, 2004, 357, 834-838.	2.4	16

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37	Synthesis, molecular structure and electrochemical properties of the star-shaped dinuclear complexes [Ru2(η6-p-Me–C6H4·iPr)2(ι⁄42-S-p-C6H4–C4H3S)3]+ and [Rh2(η5-C5Me5)2(ι⁄42-S-p-C6H4–C Journal of Organometallic Chemistry, 2005, 690, 2365-2371.	4Hi3ss)3]+.	16
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.	2.1	16
39	Morphology and Growth Mechanisms of Self-Assembled Films on Insulating Substrates: Role of Molecular Flexibility and Entropy. Journal of Physical Chemistry C, 2017, 121, 4393-4403.	3.1	16
40	Copper-assisted oxidation of catechols into quinone derivatives. Chemical Science, 2021, 12, 2257-2267.	7.4	16
41	Elimination of sulfur from aromatic heterocycles by a water-soluble arene ruthenium cluster: synthesis and molecular structure of [H2S2Ru4(C6H6)4]Cl2. Chemical Communications, 2004, , 204-205.	4.1	15
42	Subsequent Hydride Substitution in (Arene)trihydridodiruthenium Complexes: Synthesis and Structure of Thiolato-Bridged Diruthenium Cations of the Type [H2(arene)2Ru2(p-Xâ^'C6H4â^'S)]+ and [H(arene)2Ru2(p-Xâ^'C6H4â^'S)2]+. European Journal of Inorganic Chemistry, 2004, 2004, 2405-2411.	2.0	14
43	Adsorption of an organic zwitterion on a Si(111)-7×7 surface at room temperature. Surface Science, 2008, 602, 2719-2723.	1.9	14
44	Selfâ€Assembly of a Halogenated Molecule on Oxideâ€Passivated Cu(110). Chemistry - an Asian Journal, 2013, 8, 1813-1817.	3.3	14
45	STM and DFT Investigations of Isolated Porphyrin on a Siliconâ€Based Semiconductor at Room Temperature. ChemPhysChem, 2009, 10, 3190-3193.	2.1	13
46	Seeding Molecular Rotators on a Passivated Silicon Surface. ChemPhysChem, 2014, 15, 271-275.	2.1	13
47	Polymorphism of Two-Dimensional Halogen Bonded Supramolecular Networks on a Graphene/Iridium(111) Surface. Journal of Physical Chemistry C, 2017, 121, 2201-2210.	3.1	13
48	Nucleophilic addition reactions on the electron-deficient cluster dication [H4Ru4(C6H6)4]2+: synthesis and structural characterisation of the water-soluble cluster cations [H3Ru4(C6H6)4(CO)]+and [H3Ru4(C6H6)4(OH)]2+â€. Dalton Transactions RSC, 2001, , 2184-2187.	2.3	12
49	Highly Selective Hydrogenation of Carbon-Carbon Multiple Bonds Catalyzed by the Cation [(C6Me6)2Ru2(PPh2)H2]+: Molecular Structure of [(C6Me6)2Ru2(PPh2)(CHCHPh)H]+, a Possible Intermediate in the Case of Phenylacetylene Hydrogenation. Chemistry - A European Journal, 2007, 13, 292-299.	3.3	12
50	Large-Scale Patterning of Zwitterionic Molecules on a Si(111)-7 × 7 Surface. ACS Nano, 2011, 5, 424-	42 <b>8</b> 4.6	12
51	Role of the Structure and Reactivity of Cu and Ag Surfaces in the Formation of a 2D Metal–Hexahydroxytriphenylene Network. Journal of Physical Chemistry C, 2021, 125, 17333-17341.	3.1	12
52	Amine functionalized SU-8 layer guiding Love mode surface acoustic wave. Sensors and Actuators B: Chemical, 2010, 144, 23-26.	7.8	11
53	Chemisorption of Trimesic Acid on a Si(111)-7 × 7 Surface. Journal of Physical Chemistry C, 2010, 114, 4511-4514.	3.1	11
54	Thermoelectric properties improvement in Mg2Sn thin films by structural modification. Journal of Alloys and Compounds, 2019, 797, 1078-1085.	5.5	11

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55	Adsorption-Induced Kondo Effect in Metal-Free Phthalocyanine on Ag(111). Journal of Physical Chemistry C, 2020, 124, 10441-10452.	3.1	10
56	Enhancement of non-resonant non-linear refractive index with reduction of absorption in push–pull molecules by reduction of their donor group strength. Chemical Physics Letters, 2000, 319, 669-673.	2.6	9
57	Reversible Single Molecular Switch Operating at 300 K on a Surface. ChemPhysChem, 2010, 11, 2568-2572.	2.1	9
58	Anisotropic growth of the thiophene-based layer on Si(111)–B. Chemical Communications, 2014, 50, 5484-5486.	4.1	8
59	Photoelectron spectroscopic studies of ultra-thin CuPc layers on a Si(111)-(â^š3 × â^š3)R30°-B surface. Surface Science, 2016, 654, 39-47.	1.9	8
60	A surprising double carbon–nitrogen coupling reaction catalyzed by [H 3 Ru 4 (C 6 H 6 ) 4 (OH)] 2+ : synthesis of unusual barbiturate analogues. Tetrahedron Letters, 2002, 43, 6653-6655.	1.4	7
61	Electron Deficiency in Tetrahedral Transition-Metal Clusters:Â Electronic Structure and Magnetic Properties of [Ru4(η6-C6H6)4(μ3-H)4]2+. Inorganic Chemistry, 2003, 42, 8278-8282.	4.0	7
62	Influence of Halogen Bonds on the Compactness of Supramolecular Assemblies on Si(111)-B. Journal of Physical Chemistry C, 2017, 121, 8427-8434.	3.1	7
63	Collective radical oligomerisation induced by an STM tip on a silicon surface. Nanoscale, 2021, 13, 349-354.	5.6	7
64	A Surprising Reaction of Trimethylphosphane with the Unsaturated Diruthenium Complex [(η6-C6Me6)2Ru2(μ2-H)3]+: Synthesis and Molecular Structure of the Cations [(η6-C6Me6)Ru2(PMe3)3(μ2-H)3]+ and [(η6-C6Me6)2Ru2(PMe3)2(μ2-H)(H)2]+. European Journal of Inorgar Chemistry, 2007, 2007, 509-513.	iic <sup>2.0</sup>	6
65	Dinuclear (Arene)ruthenium Complexes Containing a Chiral-at-Phosphorus Phosphanido Bridge. European Journal of Inorganic Chemistry, 2007, 2007, 3091-3100.	2.0	6
66	SIMS as a subnanometer probe: A new tool for chemical profile analysis of grafted molecules. Applied Surface Science, 2007, 253, 6140-6143.	6.1	6
67	Self-assembly of zwitterionic molecules on a Au(232321) surface at low temperature. Surface Science, 2010, 604, 27-31.	1.9	6
68	Convergent fabrication of a nanoporous two-dimensional carbon network from an aldol condensation on metal surfaces. 2D Materials, 2014, 1, 034005.	4.4	6
69	Towards 1D nanolines on a monolayered supramolecular network adsorbed on a silicon surface. Nanoscale, 2016, 8, 12347-12351.	5.6	6
70	Unravelling the growth mechanism of (3,1) graphene nanoribbons on a Cu(111) surface. Chemical Communications, 2021, 57, 6043-6045.	4.1	6
71	2-Pyridones as a New Photochemically Stable Structural Design for the Off-Resonant Optical Kerr Effect. Advanced Functional Materials, 2002, 12, 339.	14.9	5
72	N,N′-Dicyclohexyl-N-(2-pyrazinoyl)urea. Acta Crystallographica Section E: Structure Reports Online, 2002, 58, o27-o29.	0.2	5

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73	Adsorption of zwitterionic assemblies on Si(111)-7Â×Â7: A joint tunneling spectroscopy andab initiostudy. Physical Review B, 2012, 85, .	3.2	5
74	Sulfur-containing trinuclear arene ruthenium clusters. Journal of Molecular Structure, 2005, 743, 177-181.	3.6	4
75	Tuning the Kondo resonance in two-dimensional lattices of cerium molecular complexes. Nanoscale, 2018, 10, 9123-9132.	5.6	4
76	Grafting of Organoruthenium Oligomers on Quartz Substrates:Â Synthesis, Electrochemistry, Optical Properties, and AFM Investigations. Chemistry of Materials, 2007, 19, 3754-3762.	6.7	3
77	Soluble Twoâ€Dimensional Covalent Organometallic Polymers by (Arene)Ruthenium‣ulfur Chemistry. Chemistry - A European Journal, 2017, 23, 10969-10973.	3.3	3
78	Influence of Sputtering Parameters on Structural, Electrical and Thermoelectric Properties of Mg–Si Coatings. Coatings, 2018, 8, 380.	2.6	3
79	Controlled growth of a bicomponent supramolecular network by the sergeants & soldiers principle. Chemical Communications, 2018, 54, 9171-9173.	4.1	3
80	General Chemistry for Students Enrolled in a Life Sciences Curriculum. Chimia, 2003, 57, 99-104.	0.6	2
81	A love-wave sensor for direct detection of biofunctionalized nanoparticles. , 2009, , .		2
82	Fabrication and Packaging Technologies of Love-wave-based Microbalance for Fluid Analysis. Procedia Chemistry, 2009, 1, 52-55.	0.7	2
83	Fabrication and packaging technologies of Love-wave-based microbalance for fluid analysis. Sensors and Actuators A: Physical, 2010, 162, 304-309.	4.1	2
84	Large-extended 2D supramolecular network of dipoles with parallel arrangement on a Si(111)–B surface. Nanoscale, 2020, 12, 17399-17404.	5.6	2
85	[2+2] Cyclo-Addition Reactions for Efficient Polymerization on a HOPG Surface at Ambient Conditions. Nanomaterials, 2022, 12, 1334.	4.1	2
86	Design and Use of Wafer Level Fluidic Packaging for Surface Acoustic Wave Sensors. Frequency Control Symposium and Exhibition, Proceedings of the IEEE International, 2007, , .	0.0	1
87	Acoustic characterization of thin polymer layers for Love mode surface acoustic waveguide. , 2008, , .		1
88	Double Decoration of a Si(111)-7 × 7 Surface at Room Temperature by Chemisorption of an Organic Salt. Journal of Physical Chemistry C, 2009, 113, 3713-3716.	3.1	1
89	Extended monolayer of cyano-ended oligo(para-phenylenes) at the air/HOPG interface investigated by high-resolution AFM. Nanotechnology, 2016, 27, 425601.	2.6	1
90	On-Surface Synthesis of Ligands to Elaborate Coordination Polymers on an Au(111) Surface. Nanomaterials, 2021, 11, 2102.	4.1	1

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91	<title>Modification of push-pull molecules and polymers for higher nonlinear refraction and lower&lt;br&gt;linear and nonlinear absorptions</title> . , 1998, , .		0
92	(μ-Diphenylphosphido-κP:P)-μ-hydrido-(μ-4-hydroxybenzenethiolato-κ2S:S)bis[(η6-hexamethylbenzene)ruthe tetrafluoroborate. Acta Crystallographica Section E: Structure Reports Online, 2006, 62, m2916-m2918.	nium(II)]	0
93	Single Molecular Machines on Semiconductor Surfaces. Advances in Atom and Single Molecule Machines, 2015, , 143-163.	0.0	0
94	Subsurface wireless chemical sensing strategy compatible with Ground Penetrating RADAR. , 2017, , .		0
95	Stable self-assembly of dipolar molecules on an Au(111) surface under UHV and an inert-atmosphere. Nanotechnology, 2020, 31, 105601.	2.6	0
96	Sampling Frequency Fluctuations of the Sensors and Software SPIDAR Ground Penetrating Radar: Impact on Probing Passive Surface Acoustic Wave Delay Lines for Pollution Sensing. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	0
97	Nano-sheets of two-dimensional polymers with dinuclear (arene)ruthenium nodes, synthesised at a liquid/liquid interface. Nanotechnology, 2021, 32, 355603.	2.6	0
98	Degradation of Sub-Micrometer Sensitive Polymer Layers of Acoustic Sensors Exposed to Chlorpyrifos Water-Solution. Sensors, 2022, 22, 1203.	3.8	0
99	On-Surface Reactivity of Disubstituted-Bianthryl Molecules on Cu(111) and Au(111) Surfaces. ECS Journal of Solid State Science and Technology, 2022, 11, 035006.	1.8	0