Fabien Silly

List of Publications by Year
in descending order

88	3,011	117453	174990
papers	citations	34 h-index	52 g-index

89	89	89	2828
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Creation of an Atomic Superlattice by Immersing Metallic Adatoms in a Two-Dimensional Electron Sea. Physical Review Letters, 2004, 92, 016101.	2.9	202
2	Melamine Structures on the Au(111) Surface. Journal of Physical Chemistry C, 2008, 112, 11476-11480.	1.5	122
3	Selecting the Shape of Supported Metal Nanocrystals: Pd Huts, Hexagons, or Pyramids onSrTiO3(001). Physical Review Letters, 2005, 94, 046103.	2.9	106
4	Engineered inorganic core/shell nanoparticles. Physics Reports, 2014, 543, 163-197.	10.3	104
5	Selecting Two-Dimensional Halogenâ€“Halogen Bonded Self-Assembled 1,3,5-Tris(4-iodophenyl)benzene Porous Nanoarchitectures at the Solidâ€“Liquid Interface. Journal of Physical Chemistry C, 2013, 117, 20244-20249.	1.5	100
6	Tuning the Packing Density of 2D Supramolecular Self-Assemblies at the Solidâ^'Liquid Interface Using Variable Temperature. ACS Nano, 2010, 4, 1288-1292.	7.3	97
7	On-Surface Synthesis of Two-Dimensional Covalent Organic Structures versus Halogen-Bonded Self-Assembly: Competing Formation of Organic Nanoarchitectures. ACS Nano, 2016, 10, 5490-5498.	7.3	97
8	Electron Transport Properties of Nanocrystals: Isolated, and â€œSupraâ€•Crystalline Phases. Advanced Materials, 2000, 12, 633-637.	11.1	78
9	Coupled Plasmon Modes in an Ordered Hexagonal Monolayer of Metal Nanoparticles: A Direct Observation. Physical Review Letters, 2000, 84, 5840-5843.	2.9	67
10	Bimodal Growth of Au onSrTiO3(001). Physical Review Letters, 2006, 96, 086104.	2.9	67
11	A robust method for processing scanning probe microscopy images and determining nanoobject position and dimensions. Journal of Microscopy, 2009, 236, 211-218.	0.8	63
12	Long-Range Alignments of Single Fullerenes by Site-Selective Inclusion into a Double-Cavity 2D Open Network. Journal of the American Chemical Society, 2009, 131, 12864-12865.	6.6	61
13	Ordering of TiO2-Based Nanostructures on SrTiO3(001) Surfaces. Journal of Physical Chemistry B, 2006, 110, 9246-9251.	1.2	59
14	A chiral pinwheel supramolecular network driven by the assembly of PTCDI and melamine. Chemical Communications, 2008, , 1907.	2.2	58
15	Two-Dimensional 1,3,5-Tris(4-carboxyphenyl)benzene Self-Assembly at the 1-Phenyloctane/Graphite Interface Revisited. Journal of Physical Chemistry C, 2012, 116, 10029-10032.	1.5	57
16	H-Bonding Supramolecular Assemblies of PTCDI Molecules on the Au(111) Surface. Journal of Physical Chemistry C, 2009, 113, 21840-21848.	1.5	56
17	Out- versus in-plane magnetic anisotropy of free Fe and Co nanocrystals: Tight-binding and first-principles studies. Physical Review B, 2014, 90, .	1.1	55
18	SrTiO3(001) reconstructions: the (2Ã—2) to c(4Ã—4) transition. Surface Science, 2006, 600, 219-223.	0.8	54

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19	Experimental and theoretical analysis of H-bonded supramolecular assemblies of PTCDA molecules. Physical Review B, 2010, 81, .	1.1	53
20	SrTiO3(001)â˜(5Ã—5)â˜R26.6Â°reconstruction: A surface resulting from phase separation in a reducing environment. Physical Review B, 2007, 75, .	1.1	52
21	Pairs and heptamers of C70 molecules ordered via PTCDI-melamine supramolecular networks. Applied Physics Letters, 2007, 91, 253109.	1.5	50
22	Concentration-Dependent Two-Dimensional Halogen-Bonded Self-Assembly of 1,3,5-Tris(4-iodophenyl)benzene Molecules at the Solidâ€“Liquid Interface. Journal of Physical Chemistry C, 2017, 121, 10413-10418.	1.5	48
23	Encapsulated Pd Nanocrystals Supported by Nanoline-Structured SrTiO3(001). Journal of Physical Chemistry B, 2005, 109, 12316-12319.	1.2	47
24	Deriving molecular bonding from a macromolecular self-assembly using kinetic Monte Carlo simulations. Physical Review B, 2008, 77, .	1.1	46
25	Topological Impact on the Kinetic Stability of Supramolecular Polymers. Journal of the American Chemical Society, 2019, 141, 13196-13202.	6.6	45
26	Coverage-dependent self-organization: from individual adatoms to adatom superlattices. New Journal of Physics, 2004, 6, 16-16.	1.2	44
27	Template Ordered Open-Grid Arrays of Paired Endohedral Fullerenes. Journal of the American Chemical Society, 2006, 128, 13976-13977.	6.6	44
28	Growth of Ag icosahedral nanocrystals on a SrTiO3(001) support. Applied Physics Letters, 2005, 87, 213107.	1.5	41
29	The (2Ã—2) reconstructions on the SrTiO3 (001) surface: A combined scanning tunneling microscopy and density functional theory study. Surface Science, 2011, 605, L51-L55.	0.8	41
30	Formation of single-domain anatase TiO2(001)â€(1Ã—4) islands on SrTiO3(001) after thermal annealing. Applied Physics Letters, 2004, 85, 3223-3225.	1.5	40
31	Epitaxial ordering of a perylenetetracarboxylic diimide-melamine supramolecular network driven by the Au(111)-(22Ã—3) reconstruction. Applied Physics Letters, 2008, 92, 023102.	1.5	40
32	Tailoring two-dimensional PTCDAâ€“melamine self-assembled architectures at room temperature by tuning molecular ratio. Nanotechnology, 2010, 21, 165602.	1.3	38
33	NaCl multi-layer islands grown on Au(111)-(22imes sqrt {3}) probed by scanning tunneling microscopy. Nanotechnology, 2008, 19, 495307.	1.3	37
34	Localized intermolecular electronic coupling in two-dimensional self-assembled 3,4,9,10-perylenetetracarboxylic diimide nanoarchitectures. Journal of Materials Chemistry C, 2013, 1, 4536.	2.7	36
35	Controlled surface ordering of endohedral fullerenes with a SrTiO3template. Nanotechnology, 2007, 18, 075301.	1.3	34
36	Formation Mechanism for a Hybrid Supramolecular Network Involving Cooperative Interactions. Physical Review Letters, 2012, 108, 176103.	2.9	34

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37	Temperature-Triggered Sequential On-Surface Synthesis of One and Two Covalently Bonded Porous Organic Nanoarchitectures on Au(111). Journal of Physical Chemistry C, 2017, 121, 26815-26821.	1.5	32
38	Inhomogeneous Photon Emission Properties of Self-Assembled Metallic Nanocrystals. Advanced Materials, 2000, 12, 1583-1587.	11.1	31
39	Reading the ripples of confined surface-state electrons: Profiles of constant integrated local density of states. Physical Review B, 2003, 67, .	1.1	31
40	Time-autocorrelation in scanning-tunneling-microscope-induced photon emission from metallic surface. Applied Physics Letters, 2000, 77, 3648-3650.	1.5	30
41	Self-assembled supported Co nanocrystals: The adhesion energy of face-centered-cubic Co on SrTiO3(001)-(2Ã—2). Applied Physics Letters, 2005, 87, 053106.	1.5	29
42	Fe nanocrystal growth on SrTiO3(001). Applied Physics Letters, 2005, 87, 063106.	1.5	28
43	Temperature-Dependent Stability of Supported Five-Fold Twinned Copper Nanocrystals. ACS Nano, 2009, 3, 901-906.	7.3	28
44	Hydrogen bond-directed supramolecular polymorphism leading to soft and hard molecular ordering. Chemical Communications, 2020, 56, 4280-4283.	2.2	28
45	Impact of helical organization on the photovoltaic properties of oligothiophene supramolecular polymers. Chemical Science, 2018, 9, 3638-3643.	3.7	27
46	Locking the free-rotation of a prochiral star-shaped guest molecule inside a two-dimensional nanoporous network by introduction of chlorine atoms. Chemical Communications, 2011, 47, 10091.	2.2	26
47	Hydrogen-bonded oligothiophene rosettes with a benzodithiophene terminal unit: self-assembly and application to bulk heterojunction solar cells. Chemical Communications, 2016, 52, 7874-7877.	2.2	25
48	Engineering two-dimensional hybrid NaClâ€“organic coordinated nanoarchitectures on metal surfaces. Chemical Communications, 2015, 51, 13162-13165.	2.2	24
49	Growth shapes of supported Pd nanocrystals onSrTiO3(001). Physical Review B, 2005, 72, .	1.1	23
50	Hot STM of nanostructure dynamics on SrTiO3(001). Nanotechnology, 2006, 17, 3543-3548.	1.3	21
51	Two-Dimensional Self-Assembly of 2,4,6-Tris(4â€²,4â€³,4â€´-trimethylphenyl)-1,3,5-triazine Star-Shaped Molecules: Nanoarchitecture Structure and Domain Boundaries. Journal of Physical Chemistry C, 2014, 118, 11975-11979.	1.5	21
52	Grating of single Lu@C82 molecules using supramolecular network. Chemical Communications, 2008, , 4616.	2.2	19
53	Controlled growth of Ni nanocrystals on SrTiO3 and their application in the catalytic synthesis of carbon nanotubes. Chemical Communications, 2013, 49, 3748.	2.2	18
54	Molecular trapping in two-dimensional chiral organic KagomÃ© nanoarchitectures composed of Baravelle spiral triangle enantiomers. NPG Asia Materials, 2020, 12, .	3.8	18

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55	Fabrication of a Complex Two-Dimensional Adenineâ€“Perylene-3,4,9,10-tetracarboxylic Dianhydride Chiral Nanoarchitecture through Molecular Self-Assembly. Journal of Physical Chemistry C, 2012, 116, 2493-2499.	1.5	17
56	Two-Dimensional Halogen-Bonded Porous Self-Assembled Nanoarchitectures of Copper Î²-Diketonato Complexes. Journal of Physical Chemistry C, 2018, 122, 17143-17148.	1.5	15
57	S-Shaped Conformation of the Quaterthiophene Molecular Backbone in Two-Dimensional Bisterpyridine-Derivative Self-Assembled Nanoarchitecture. Langmuir, 2015, 31, 13420-13425.	1.6	14
58	X3 synthon geometries in two-dimensional halogen-bonded 1,3,5-tris(3,5-dibromophenyl)benzene self-assembled nanoarchitectures on Au(111)-(). Physical Chemistry Chemical Physics, 2018, 20, 3918-3924.	1.3	14
59	Elucidating Halogenâ€Assisted Selfâ€Assembly Enhanced Mechanochromic Aggregationâ€Induced Emission. ChemPhotoChem, 2021, 5, 626-631.	1.5	14
60	Scanning tunneling microscopy-controlled dynamic switching of single nanoparticle luminescence at room temperature. Applied Physics Letters, 2001, 79, 4013-4015.	1.5	12
61	NaCl islands decorated with 2D or 3D 3,4,9,10-perylene-tetracarboxylic-dianhydride nanostructures. Applied Surface Science, 2010, 256, 2228-2231.	3.1	12
62	Compact Hydrogen-Bonded Self-Assembly of Ni(II)â€“Salen Derivative Investigated Using Scanning Tunneling Microscopy. Journal of Physical Chemistry C, 2012, 116, 23404-23407.	1.5	12
63	Experimental and Theoretical Analysis of Hydrogen Bonding in Two-Dimensional Chiral 4â€²,4â€²â€²â€²â€²-(1,4-Phenylene)bis(2,2â€²:6â€²,2â€³-terpyridine) Self-Assembled Nanoarchitecture. Journal of Physical Chemistry C, 2015, 119, 27125-27130.	1.5	11
64	Coexisting Chiral Two-Dimensional Self-Assembled Structures of 1,2,3,4-Tetrahydronaphthalene Molecules: Porous Pinwheel Nanoarchitecture and Close-Packed Herringbone Arrangement. Journal of Physical Chemistry C, 2017, 121, 15288-15293.	1.5	11
65	Correlated plasmons in the topological insulator Bi2Se3 induced by long-range electron correlations. NPG Asia Materials, 2020, 12, .	3.8	11
66	Local photon emission of self-assembled metal nanoparticles. Applied Surface Science, 2000, 162-163, 553-558.	3.1	10
67	Single nanoparticle manipulation with simultaneously recorded STM-induced light emission. Materials Science and Engineering C, 2002, 19, 193-195.	3.8	10
68	MoirÃ© pattern induced by the electronic coupling between 1-octanol self-assembled monolayers and graphite surface. Nanotechnology, 2012, 23, 225603.	1.3	10
69	Engineering porous and compact two-dimensional nanoarchitectures on surfaces taking advantage of bisterpyridine-derivatives self-assembly. RSC Advances, 2015, 5, 101740-101744.	1.7	10
70	Supramolecular chiral hostâ€“guest nanoarchitecture induced by the selective assembly of barbituric acid derivative enantiomers. Nanotechnology, 2016, 27, 42LT01.	1.3	10
71	Temperature-Dependent Structure of Two-Dimensional Hybrid NaCl-PTCDI Nanoarchitectures on Au(111). Journal of Physical Chemistry C, 2017, 121, 20986-20993.	1.5	10
72	Two-Dimensional Chiral Self-Assembly of Barbituric-Acid-Functionalized Naphthelene Derivatives. Journal of Physical Chemistry C, 2018, 122, 6412-6416.	1.5	9

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73	Effect of Azobenzene Regioisomerism on Intrinsically Curved Supramolecular Polymers. Asian Journal of Organic Chemistry, 2021, 10, 257-261.	1.3	9
74	Correlation between STM-induced photon emission and barrier height: The case of the Cu 3 Au alloy vicinal surface. Europhysics Letters, 2003, 64, 475-481.	0.7	8
75	Time-correlations as a contrast mechanism in scanning-tunneling-microscopy-induced photon emission. Ultramicroscopy, 2004, 99, 159-164.	0.8	8
76	Geometry Symmetry of Conjugated Cores along Câ€“Br Bond Effect on the 2D Self-Assembly by Intermolecular HÂ·Â·Â·Br and BrÂ·Â·Â·Br Bonds. Journal of Physical Chemistry C, 2018, 122, 15338-15343.	1.5	7
77	Coronene and Phthalocyanine Trapping Efficiency of a Two-Dimensional KagomÃ© Host-Nanoarchitecture. Nanomaterials, 2022, 12, 775.	1.9	7
78	Tailoring the Structure of Twoâ€Dimensional Selfâ€Assembled Nanoarchitectures Based on Ni^{II}â€“Salen Building Blocks. Chemistry - A European Journal, 2014, 20, 13566-13575.	1.7	6
79	Effect of Alkyl Substituents on 2D and 1D Self-assembly and Photovoltaic Properties of Hydrogen-bonded Oligothiophene Rosettes. Chemistry Letters, 2017, 46, 1102-1104.	0.7	6
80	Self-Assembly Polymorphism of Regioisomeric Diketopyrrolopyrrole-Based Ï€-Conjugated Organic Semiconductors. Journal of Physical Chemistry C, 2019, 123, 1185-1193.	1.5	5
81	Elucidating the intramolecular contrast in the STM images of 2,4,6-tris(4â€²,4â€²â€²,4â€²â€²â€²-trimethylphenyl)-1,3,5-triazine molecules recorded at room-temperature and at the liquid-solid interface. RSC Advances, 2020, 10, 5742-5746.	1.7	4
82	Luminescence induced by a scanning-tunneling microscope as a nanophotonic probe. Comptes Rendus Physique, 2002, 3, 493-500.	0.3	3
83	Enhancing intramolecular features and identifying defects in organic and hybrid nanoarchitectures on a metal surface at room temperature using a NaCl-functionalized scanning tunneling microscopy tip. RSC Advances, 2017, 7, 51055-51061.	1.7	1
84	Two-Dimensional Hydrogen-Bonded Nanoarchitecture Composed of Rectangular 3,4,9,10-Perylenetetracarboxylic Diimide and Boomerang-Shaped Molecules Resulting from the Dissociation of 1,3,5-Tris(4-aminophenyl)benzene. ACS Omega, 2020, 5, 3964-3968.	1.6	1
85	Synthesis and characterization of iodo derivatives of bis-salphen complexes. Journal of Molecular Structure, 2021, 1223, 129319.	1.8	1
86	Rod and Helical Organic Fiber Structures Revealing Lamellar and Rosette Ordering Pathways in Self-Assembly of Barbiturate Oligothiophene Derivatives. Journal of Physical Chemistry C, 2022, 126, 2780-2787.	1.5	1
87	Frontispiece: Tailoring the Structure of Twoâ€Dimensional Selfâ€Assembled Nanoarchitectures Based on Ni^{II}â€“Salen Building Blocks. Chemistry - A European Journal, 2014, 20, .	1.7	0
88	STM-Induced Light Emission: Excitation and Time-Resolved Spectroscopy. , 2003, , 93-102.		0