Alain Rochefort

List of Publications by Year
in descending order

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Version: 2024-02-01

73 papers	2,771 citations	218677 26 h-index	175258 52 g-index
76 all docs	76 docs citations	76 times ranked	3632 citing authors

#	Article	IF	Citations
1	Controlling the magnetic properties of two-dimensional carbon-based Kagome polymers. Carbon Trends, 2022, 7, 100170.	3.0	7
2	Collective radical oligomerisation induced by an STM tip on a silicon surface. Nanoscale, 2021, 13, 349-354.	5.6	7
3	Unravelling the growth mechanism of (3,1) graphene nanoribbons on a Cu(111) surface. Chemical Communications, 2021, 57, 6043-6045.	4.1	6
4	Electrostatic patterning on graphene with dipolar self-assembly. Physical Chemistry Chemical Physics, 2021, 23, 22014-22021.	2.8	5
5	Collective Magnetism in 2D Polymer Made of Câ€Doped Triangular Boron Nitride Nanoflakes. Advanced Theory and Simulations, 2021, 4, 2100028.	2.8	3
6	Role of the Structure and Reactivity of Cu and Ag Surfaces in the Formation of a 2D Metalâ€“Hexahydroxytriphenylene Network. Journal of Physical Chemistry C, 2021, 125, 17333-17341.	3.1	12
7	Large-extended 2D supramolecular network of dipoles with parallel arrangement on a Si(111)â€“B surface. Nanoscale, 2020, 12, 17399-17404.	5.6	2
8	Quantum Size Effects of Ag_n Clusters on Carbon Nanotubes. Journal of Physical Chemistry C, 2019, 123, 28769-28776.	3.1	4
9	Influence of Cu adatoms on the molecular assembly of 4,4â€²-bipyridine on Cu(111). Physical Chemistry Chemical Physics, 2018, 20, 15350-15357.	2.8	7
10	Toward interactive scanning tunneling microscopy simulations of large-scale molecular systems in real time. Journal of Applied Physics, 2018, 124, .	2.5	1
11	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
12	Electron percolation in realistic models of carbon nanotube networks. Journal of Applied Physics, 2015, 118, .	2.5	11
13	Tuning the Electronic Properties of a Boron-Doped Si(111) Surface by Self-Assembling of Trimesic Acid. Journal of Physical Chemistry C, 2015, 119, 15742-15748.	3.1	10
14	Impact of nucleation on step-meandering instabilities during step-flow growth on vicinal surfaces. Physical Review E, 2014, 89, 032406.	2.1	6
15	Anisotropic growth of the thiophene-based layer on Si(111)â€“B. Chemical Communications, 2014, 50, 5484-5486.	4.1	8
16	Electronic Properties of Self-Assembled Trimesic Acid Monolayer on Graphene. Langmuir, 2014, 30, 9707-9716.	3.5	56
17	Role of structural order at the P3HT/C60 heterojunction interface. Organic Electronics, 2014, 15, 2091-2098.	2.6	5
18	States Modulation in Graphene Nanoribbons through Metal Contacts. ACS Nano, 2013, 7, 5414-5420.	14.6	20

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19	Influence of statistical distributions on the electrical properties of disordered and aligned carbon nanotube networks. Journal of Applied Physics, 2013, 114, 114312.	2.5	21
20	Noncovalent Bicomponent Self-Assemblies on a Silicon Surface. ACS Nano, 2012, 6, 6905-6911.	14.6	46
21	Evidence for Ï€-Interactions in Stacked Polymers by STM Simulations. Journal of Physical Chemistry C, 2011, 115, 18625-18633.	3.1	5
22	Large-Scale Patterning of Zwitterionic Molecules on a Si(111)-7â€‰Ã—â€‰7 Surface. ACS Nano, 2011, 5, 424-428.	14.6	12
23	Intrusive STM imaging. Physical Review B, 2011, 83, .	3.2	11
24	Engineering Homologous Molecular Organization in 2D and 3D. Cocrystallization of Pyridyl-Substituted Diaminotriazines with Alkanecarboxylic Acids. Journal of Physical Chemistry C, 2011, 115, 12908-12919.	3.1	15
25	Band alignment engineering in organized rrP3HT/C60 bulk heterojunction. Organic Electronics, 2010, 11, 1991-1998.	2.6	1
26	High Onâ^'Off Conductance Switching Ratio in Optically-Driven Self-Assembled Conjugated Molecular Systems. ACS Nano, 2010, 4, 2411-2421.	14.6	128
27	A Single Molecule Kondo Switch: Multistability of Tetracyanoethylene on Cu(111). Nano Letters, 2010, 10, 4175-4180.	9.1	77
28	Hexaphenylbenzenes as Potential Acetylene Sponges. Organic Letters, 2010, 12, 380-383.	4.6	15
29	Strong adsorption of aminotriazines on graphene. Chemical Communications, 2010, 46, 2923.	4.1	118
30	Stabilization of platinum nanoparticles on graphene by non-invasive functionalization. Carbon, 2009, 47, 2233-2238.	10.3	16
31	Structural and electronic properties of poly(3-hexylthiophene)Ï€-stacked crystals. Physical Review B, 2009, 79, .	3.2	57
32	Tailoring the Photoluminescence Properties of Ionic Iridium Complexes. Journal of Physical Chemistry A, 2009, 113, 534-541.	2.5	32
33	Interaction of Substituted Aromatic Compounds with Graphene. Langmuir, 2009, 25, 210-215.	3.5	260
34	Nanoscale adaptive meshing for rapid STM imaging. Journal of Computational Physics, 2008, 227, 6720-6726.	3.8	4
35	Self-assembly of Rubrene on Copper Surfaces. Journal of Physical Chemistry C, 2008, 112, 10214-10221.	3.1	31
36	Strongly Reshaped Organic-Metal Interfaces: Tetracyanoethylene on Cu(100). Physical Review Letters, 2008, 101, 216105.	7.8	57

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37	Parallel scanning tunneling microscopy imaging of low dimensional nanostructures. Journal of Applied Physics, 2008, 104, .	2.5	19
38	Effects of long jumps, reversible aggregation, and Meyer-Neldel rule on submonolayer epitaxial growth. Physical Review E, 2008, 78, 021604.	2.1	4
39	Frustrated 2D Molecular Crystallization. Journal of the American Chemical Society, 2007, 129, 13774-13775.	13.7	172
40	Competitive Hydrogen Bonding in Ï€-Stacked Oligomers. Advanced Materials, 2007, 19, 1992-1995.	21.0	23
41	Resonant tunneling transport in highly organized oligoacene assemblies. Organic Electronics, 2007, 8, 1-7.	2.6	18
42	Hydrogen bonding and Ï€-stacking in highly organized arenes-based molecular wire. Organic Electronics, 2006, 7, 144-154.	2.6	12
43	Tailoring electronic and charge transport properties of molecular Ï€-stacked heterojunctions. Applied Physics Letters, 2006, 89, 092115.	3.3	10
44	Formation of Ï€-coupled organic wire on the Si(001)[2Ã—1] surface. Chemical Physics Letters, 2004, 400, 347-352.	2.6	10
45	On the control of carbon nanostructures for hydrogen storage applications. Carbon, 2004, 42, 2187-2193.	10.3	66
46	Irradiation-induced structural changes in hydrogenated amorphous silicon as measured by X-ray photoemission spectroscopy. Solar Energy Materials and Solar Cells, 2003, 78, 391-398.	6.2	5
47	Electronic and transport properties of carbon nanotube peapods. Physical Review B, 2003, 67, .	3.2	80
48	Electrical Properties of Carbon Nanotubes: Spectroscopy Localization and Electrical Breakdown. , 2002, , 223-237.		1
49	Electrical Switching in Ï€-Resonant 1D Intermolecular Channels. Nano Letters, 2002, 2, 877-880.	9.1	45
50	Quantum Size Effects in Carbon Nanotube Intramolecular Junctions. Nano Letters, 2002, 2, 253-256.	9.1	45
51	Bonding of Î±-Dicarbonyls to Nickel:â€‰ Structural and Vibrational Analysis. Journal of Physical Chemistry A, 2001, 105, 1320-1325.	2.5	6
52	Switching behavior of semiconducting carbon nanotubes under an external electric field. Applied Physics Letters, 2001, 78, 2521-2523.	3.3	57
53	Orientation and Conformation of Methyl Pyruvate on Ni(111). Journal of the American Chemical Society, 2000, 122, 518-524.	13.7	38
54	Electron Interference Effects on the Conductance of Doped Carbon Nanotubes. Journal of Physical Chemistry A, 2000, 104, 9807-9811.	2.5	37

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55	Electrical and mechanical properties of distorted carbon nanotubes. Physical Review B, 1999, 60, 13824-13830.	3.2	293
56	Effects of Finite Length on the Electronic Structure of Carbon Nanotubes. Journal of Physical Chemistry B, 1999, 103, 641-646.	2.6	223
57	The effect of structural distortions on the electronic structure of carbon nanotubes. Chemical Physics Letters, 1998, 297, 45-50.	2.6	130
58	Interaction of bromocyclopropane with Cu(110). Surface Science, 1998, 414, 38-43.	1.9	7
59	Metallacyclobutane and Cyclopropyl Species on Cu(111) and Cu(110). Journal of the American Chemical Society, 1998, 120, 2421-2427.	13.7	15
60	Facile Cyclization of Metallacyclobutane on Cu(110). Journal of the American Chemical Society, 1997, 119, 7881-7882.	13.7	8
61	Bond selectivity in the dissociative adsorption of c-CH2N2 on single crystals: a comparative DFT-LSD investigation for Pd(110) and Cu(110). Surface Science, 1996, 347, 11-24.	1.9	9
62	Quantum Chemical Study of CO and NO Bonding to Pd2, Cu2, and PdCu. The Journal of Physical Chemistry, 1996, 100, 13506-13513.	2.9	55
63	Molecular Adsorption of Diazirine on Palladium (110) Cluster Models Using the LCGTO-MCP-LSD Method. , 1996, , 437-451.		1
64	Synergistic alloying behaviour of Pd50Cu50 single crystals upon adsorption and co-adsorption of CO and NO. Applied Surface Science, 1995, 90, 15-27.	6.1	61
65	The Reconstruction of Supported Platinum Particles Monitored by Methylcyclohexane Dehydrogenation and H2 TPD. Journal of Catalysis, 1994, 145, 409-415.	6.2	14
66	Cyclopropyl Species on Cu(110): Area Selective Activation of Adsorbed Cyclopropane Using a Dispersion Compensation HREELS Spectrometer. Journal of the American Chemical Society, 1994, 116, 5965-5966.	13.7	37
67	Alloying effect on the adsorption properties of Pd50Cu50{111} single crystal surface. Surface Science, 1993, 294, 43-52.	1.9	111
68	Particle size effect in supported platinum: Methylcyclohexane dehydrogenation. Journal of Catalysis, 1992, 138, 482-490.	6.2	25
69	Les petites particules mÃ©talliques supportÃ©es. Oil & Gas Science & Technology, 1991, 46, 221-249.	0.2	3
70	Chemisorption and diffusion of atomic hydrogen in and on cluster models of palladium, rhodium and bimetallic palladium tin, rhodium tin, and rhodium zinc catalysts. Journal of the American Chemical Society, 1990, 112, 8239-8247.	13.7	41
71	Interaction of atomic hydrogen with cluster models of Pd, Rh and bimetallic PdSn and RhSn catalysts. Surface Science, 1990, 235, L319-L323.	1.9	7
72	Gas-phase measurement of oil-like vapor in SF/sub 6/ using FTIR. , 0, , .		0

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73	The Effect of π-Coupling on the Electronic Properties of 1,4-Dithiol Benzene Stacking. , 0, , .		0