Xavier Bouju

List of Publications by Year
in descending order

62 papers	1,451 citations	331670 21 h-index	330143 37 g-index
62 all docs	62 docs citations	62 times ranked	1656 citing authors

#	Article	IF	Citations
1	Surface Vacancy Generation by STM Tunneling Electrons in the Presence of Indigo Molecules on Cu(111). Journal of Physical Chemistry C, 2022, 126, 14103-14115.	3.1	3
2	Edge-On Self-Assembly of Tetra-bromoanthracenyl-porphyrin on Silver Surfaces. Journal of Physical Chemistry C, 2020, 124, 22137-22142.	3.1	3
3	Switching the Spin on a Ni Trimer within a Metalâ€“Organic Motif by Controlling the On-Top Bromine Atom. ACS Nano, 2019, 13, 9936-9943.	14.6	14
4	Unraveling the molecular conformations of a single ruthenium complex adsorbed on the Ag(111) surface by calculations. Physical Chemistry Chemical Physics, 2019, 21, 10022-10027.	2.8	0
5	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.	3.1	4
6	Nonisotropic Selfâ€Assembly of Nanoparticles: From Compact Packing to Functional Aggregates. Advanced Materials, 2018, 30, e1706558.	21.0	38
7	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
8	Toward interactive scanning tunneling microscopy simulations of large-scale molecular systems in real time. Journal of Applied Physics, 2018, 124, .	2.5	1
9	Three-dimensional hydrogen bonding between Landers and planar molecules facilitated by electrostatic interactions with Ni adatoms. Chemical Communications, 2018, 54, 8845-8848.	4.1	1
10	Bicomponent Supramolecular Architectures at the Vacuumâ€“Solid Interface. Chemical Reviews, 2017, 117, 1407-1444.	47.7	95
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	Adsorption of single 1,8-octanedithiol molecules on Cu(100). Physical Chemistry Chemical Physics, 2016, 18, 27521-27528.	2.8	6
13	Adsorption and STM imaging of polycyclic aromatic hydrocarbons on graphene. Physical Review B, 2015, 91, .	3.2	21
14	Manipulating the Conformation of Single Organometallic Chains on Au(111). Journal of Physical Chemistry C, 2014, 118, 1719-1728.	3.1	54
15	Bicomponent hydrogen-bonded nanostructures formed by two complementary molecular Landers on Au(111). Chemical Communications, 2014, 50, 10619-10621.	4.1	6
16	Directional molecular sliding at room temperature on a silicon runway. Nanoscale, 2013, 5, 7005.	5.6	20
17	UHV-STM Investigations and Numerical Calculations of a Ruthenium Î²-Diketonato Complex with Protected Ethynyl Ligand: [Ru(dbm)₂(acac-TIPSA)]. Journal of Physical Chemistry C, 2012, 116, 13715-13721.	3.1	12
18	Structural and electronic properties of hexa-adamantyl-hexa-phenylbenzene molecules studied by low temperature scanning tunneling microscopy. Surface Science, 2012, 606, 444-449.	1.9	4

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19	From zero to two dimensions: supramolecular nanostructures formed from perylene-3,4,9,10-tetracarboxylic diimide (PTCDI) and Ni on the Au(111) surface through the interplay between hydrogen-bonding and electrostatic metal-organic interactions. Nano Research, 2012, 5, 903-916.	10.4	31
20	Graphite, graphene on SiC, and graphene nanoribbons: Calculated images with a numerical FM-AFM. Beilstein Journal of Nanotechnology, 2012, 3, 301-311.	2.8	14
21	Interactive physically-based structural modeling of hydrocarbon systems. Journal of Computational Physics, 2012, 231, 2581-2598.	3.8	19
22	Atomic force microscope measurements and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">LCAO</mml:mi><mml:mo>â^'</mml:mo><mml:msup><mml:mi>S</mml:mi><mml:mrow><mml:mn>2</mml:mn> xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mo>+</mml:mo></mml:mrow></mml:math>â€‰vdW calculations of contact length between a carbon nanotube and a graphene surface. Physical Review B, 2011, 83.	3.2	19
23	Synthesis and Characterization of a Series of Ruthenium Tris(β-diketonato) Complexes by an UHV-STM Investigation and Numerical Calculations. European Journal of Inorganic Chemistry, 2011, 2011, 2698-2705.	2.0	16
24	Self-assembly of enantiopure domains: The case of indigo on Cu(111). Journal of Chemical Physics, 2010, 132, 074705.	3.0	27
25	Supramolecular Architectures on Surfaces Formed through Hydrogen Bonding Optimized in Three Dimensions. ACS Nano, 2010, 4, 4097-4109.	14.6	48
26	Self-assembly of hydrogen-bonded chains of molecular landers. Chemical Communications, 2010, 46, 5545.	4.1	21
27	Selfâ€Assembly of Fivefoldâ€Symmetric Molecules on a Threefoldâ€Symmetric Surface. Angewandte Chemie - International Edition, 2009, 48, 1970-1973.	13.8	56
28	STM manipulation of molecular moulds on metal surfaces. Nano Research, 2009, 2, 254-259.	10.4	29
29	Exploring the transferability of large supramolecular assemblies to the vacuum-solid interface. Nano Research, 2009, 2, 535-542.	10.4	11
30	Properties of Penta-tert-butylcorannulene Molecules Inserted in Phthalocyanine Networks Studied by Low-Temperature Scanning Tunneling Microscopy. Journal of Physical Chemistry C, 2009, 113, 21169-21176.	3.1	11
31	Roomâ€Temperature Electronic Template Effect of the SmSi(111)â€8Ã—2 Interface for Selfâ€Alignment of Organic Molecules. ChemPhysChem, 2008, 9, 1437-1441.	2.1	20
32	Rolling a single molecular wheel at the atomic scale. Nature Nanotechnology, 2007, 2, 95-98.	31.5	177
33	Molecular Self-Assembly of Jointed Molecules on a Metallic Substrate: From Single Molecule to Monolayer. ChemPhysChem, 2006, 7, 1917-1920.	2.1	22
34	Recording the intramolecular deformation of a 4-legs molecule during its STM manipulation on a Cu(211) surface. Chemical Physics Letters, 2005, 402, 180-185.	2.6	42
35	An experimental investigation of resonance curves on metallic surfaces in dynamic force microscopy: the influence of frozen versus mobile charges. Nanotechnology, 2004, 15, S24-S29.	2.6	6
36	Atomic diffusion inside a STM junction: simulations by kinetic Monte Carlo coupled to tunneling current calculations. Surface Science, 2003, 523, 267-278.	1.9	8

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37	Experimental investigation of resonance curves in dynamic force microscopy. Nanotechnology, 2003, 14, 1036-1042.	2.6	16
38	<title>Photon emission rates in photonic band-gap materials</title>. , 2002, 4655, 288.		0
39	Fibonacci, Koch, and Penrose Structures: Spectrum of Finite Subsystems in Three-Dimensional Space. Physica Status Solidi (B): Basic Research, 2001, 225, 95-114.	1.5	8
40	Mechanics of(Xe)Natomic chains under STM manipulation. Physical Review B, 2001, 63, .	3.2	28
41	Atomic radiation rates in photonic crystals. Physical Review B, 2001, 64, .	3.2	35
42	Size and Shape Effects on Electronic Energy Levels: From Infinite to Nanoscopic Systems in Three-Dimensional Space. Physica Status Solidi (B): Basic Research, 2000, 217, 819-832.	1.5	8
43	Single-atom motion during a lateral STM manipulation. Physical Review B, 1999, 59, R7845-R7848.	3.2	60
44	Electric field effect and atomic manipulation process with the probe tip of a scanning tunneling microscope. Applied Physics A: Materials Science and Processing, 1998, 66, S749-S752.	2.3	6
45	Theoretical study of the resistance of short (Xe) n wires within an STM junction: the (Xe) 2 case. Applied Physics A: Materials Science and Processing, 1998, 66, S875-S878.	2.3	2
46	Transmission scanning near-field optical microscopy with uncoated silicon tips. Ultramicroscopy, 1998, 71, 371-377.	1.9	16
47	Scanning force microscopy simulations of well-characterized nanostructures on dielectric and semiconducting substrates. Applied Surface Science, 1998, 125, 351-359.	6.1	10
48	Image simulation of a corrugated surface in the constant-force-gradient mode of the scanning force microscope. Journal Physics D: Applied Physics, 1998, 31, 2388-2394.	2.8	2
49	Theoretical study of the atomic-force-microscopy imaging process on the NaCl(001) surface. Journal of Chemical Physics, 1998, 108, 359-367.	3.0	25
50	Glass and silicon probes: A comparative theoretical study for near-field optical microscopy. Journal of Applied Physics, 1998, 84, 52-57.	2.5	12
51	The resistance of a (Xe) n atomic wire. Europhysics Letters, 1997, 38, 97-102.	2.0	16
52	van der Waals atomic trap in a scanning-tunneling-microscope junction:Tip shape, dynamical effects, and tunnel current signatures. Physical Review B, 1997, 55, 16498-16498.	3.2	48
53	Adsorption ofC60molecules. Physical Review B, 1996, 53, 1622-1629.	3.2	83
54	Scattering of electromagnetic waves by silicon-nitride tips. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1996, 14, 816.	1.6	7

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55	Moving gold atoms with an atomic-force-microscope tip: A study of dimer and trimer formation on NaCl(100). Physical Review B, 1994, 50, 7893-7902.	3.2	16
56	Imaging and moving a xenon atom on a copper (110) surface with the tip of a scanning tunneling microscope: A theoretical study. Physical Review B, 1993, 47, 7454-7461.	3.2	29
57	Theoretical atomic-force-microscopy study of adsorbed fullerene molecules. Physical Review B, 1993, 48, 15417-15424.	3.2	11
58	Self-consistent study of dynamical and polarization effects in near-field optical microscopy. Journal of the Optical Society of America B: Optical Physics, 1992, 9, 298.	2.1	53
59	Van der Waals interactions between an adsorbate and the tip of an STM. Chemical Physics, 1992, 168, 203-210.	1.9	15
60	Self-consistent study of the electromagnetic coupling between a thin probe tip and a surface: implication for atomic-force and near-field microscopy. Ultramicroscopy, 1992, 42-44, 430-436.	1.9	7
61	Spectroscopie local d'une surface par dÃ©tection de champ proche : Ã©tude thÃ©orique comparative des mÃ©taux nobles. Journal De Physique, I, 1992, 2, 1431-1444.	1.2	2
62	Coupled electromagnetic modes between a corrugated surface and a thin probe tip. Journal of Chemical Physics, 1991, 95, 2056-2064.	3.0	63