

# Francesca Moresco

## List of Publications by Year in descending order

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96  
papers

4,586  
citations

109321

35  
h-index

98798

67  
g-index

97  
all docs

97  
docs citations

97  
times ranked

3875  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electric Field-Induced Isomerization of Azobenzene by STM. <i>Journal of the American Chemical Society</i> , 2006, 128, 14446-14447.	13.7	543
2	Conformational Changes of Single Molecules Induced by Scanning Tunneling Microscopy Manipulation: A Route to Molecular Switching. <i>Physical Review Letters</i> , 2001, 86, 672-675.	7.8	439
3	Substrate Mediated Long-Range Oscillatory Interaction between Adatoms: Cu/Cu(111). <i>Physical Review Letters</i> , 2000, 85, 2981-2984.	7.8	363
4	Rolling a single molecular wheel at the atomic scale. <i>Nature Nanotechnology</i> , 2007, 2, 95-98.	31.5	177
5	A rack-and-pinion device at the molecular scale. <i>Nature Materials</i> , 2007, 6, 30-33.	27.5	171
6	Surface intercalation of gold underneath a graphite monolayer on Ni(111) studied by angle-resolved photoemission and high-resolution electron-energy-loss spectroscopy. <i>Physical Review B</i> , 2000, 62, 13202-13208.	3.2	163
7	Decacene: On-Surface Generation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11945-11948.	13.8	146
8	Manipulation of large molecules by low-temperature STM: model systems for molecular electronics. <i>Physics Reports</i> , 2004, 399, 175-225.	25.6	122
9	Adsorption and Switching Properties of Azobenzene Derivatives on Different Noble Metal Surfaces: Au(111), Cu(111), and Au(100). <i>Journal of Physical Chemistry C</i> , 2008, 112, 10509-10514.	3.1	116
10	Probing the Different Stages in Contacting a Single Molecular Wire. <i>Physical Review Letters</i> , 2003, 91, 036601.	7.8	94
11	Recording Intramolecular Mechanics during the Manipulation of a Large Molecule. <i>Physical Review Letters</i> , 2001, 87, 088302.	7.8	93
12	Dodecacene Generated on Surface: Reopening of the Energy Gap. <i>ACS Nano</i> , 2020, 14, 1011-1017.	14.6	93
13	Persulfurated Coronene: A New Generation of "Sulflower". <i>Journal of the American Chemical Society</i> , 2017, 139, 2168-2171.	13.7	89
14	Trapping and moving metal atoms with a six-leg molecule. <i>Nature Materials</i> , 2005, 4, 892-895.	27.5	88
15	Low temperature manipulation of big molecules in constant height mode. <i>Applied Physics Letters</i> , 2001, 78, 306-308.	3.3	78
16	Plasmon Confinement in Ultrathin Continuous Ag Films. <i>Physical Review Letters</i> , 1999, 83, 2238-2241.	7.8	74
17	TBPP molecules on copper surfaces: a low temperature scanning tunneling microscope investigation. <i>Surface Science</i> , 2002, 499, 94-102.	1.9	74
18	Imaging of a molecular wheelbarrow by scanning tunneling microscopy. <i>Surface Science</i> , 2005, 584, L153-L158.	1.9	74

#	ARTICLE	IF	CITATIONS
19	The design of a nanoscale molecular barrow. <i>Nanotechnology</i> , 2002, 13, 330-335.	2.6	69
20	Tailoring molecular self-organization by chemical synthesis: Hexaphenylbenzene, hexa-peri-hexabenzocoronene, and derivatives on Cu (111). <i>Physical Review B</i> , 2005, 71, .	3.2	64
21	Scattering of Surface State Electrons at Large Organic Molecules. <i>Physical Review Letters</i> , 2004, 93, 056103.	7.8	63
22	Exploring the Interatomic Forces between Tip and Single Molecules during STM Manipulation. <i>Nano Letters</i> , 2006, 6, 2685-2689.	9.1	60
23	Tetracene Formation by On-Surface Reduction. <i>ACS Nano</i> , 2016, 10, 4538-4542.	14.6	60
24	Moving Nanostructures: Pulse-Induced Positioning of Supramolecular Assemblies. <i>ACS Nano</i> , 2013, 7, 191-197.	14.6	57
25	Imaging the electronic structure of on-surface generated hexacene. <i>Chemical Communications</i> , 2017, 53, 1583-1586.	4.1	54
26	Decacene: On-Surface Generation. <i>Angewandte Chemie</i> , 2017, 129, 12107-12110.	2.0	54
27	Low-temperature scanning tunneling spectroscopy of n-type GaAs(110) surfaces. <i>Physical Review B</i> , 2002, 66, .	3.2	50
28	Temperature dependence of surface plasmons on Ag(001). <i>Physical Review B</i> , 1992, 45, 1399-1402.	3.2	49
29	Controlled manipulation of a single molecular wire along a copper atomic nanostructure. <i>Physical Review B</i> , 2004, 69, .	3.2	49
30	Controlled Manipulation of Atoms and Small Molecules with a Low Temperature Scanning Tunneling Microscope. <i>Single Molecules</i> , 2000, 1, 79-86.	0.9	47
31	Lander on Cu(2 1 1) " selective adsorption and surface restructuring by a molecular wire. <i>Chemical Physics Letters</i> , 2003, 371, 750-756.	2.6	44
32	Recording the intramolecular deformation of a 4-legs molecule during its STM manipulation on a Cu(211) surface. <i>Chemical Physics Letters</i> , 2005, 402, 180-185.	2.6	42
33	Electronic Resonances and Gap Stabilization of Higher Acenes on a Gold Surface. <i>ACS Nano</i> , 2018, 12, 8506-8511.	14.6	42
34	Scanning tunneling microscopy experiments on single molecular landers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 8809-8814.	7.1	38
35	Evidence for the presence of the multipole plasmon mode on Ag surfaces. <i>Physical Review B</i> , 1996, 54, R14333-R14336.	3.2	35
36	Controlling the Electronic Interaction between a Molecular Wire and Its Atomic Scale Contacting Pad. <i>Nano Letters</i> , 2005, 5, 859-863.	9.1	34

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37	VIBRATIONAL SPECTROSCOPY OF CO/Cu(211) WITH A CO TERMINATED TIP. <i>Modern Physics Letters B</i> , 1999, 13, 709-715.	1.9	33
38	Synthesis and STM Imaging of Symmetric and Dissymmetric Ethynyl-Bridged Dimers of Boron-Subphthalocyanine Bowl-Shaped Nanowheels. <i>Chemistry - A European Journal</i> , 2012, 18, 8925-8928.	3.3	32
39	Supramolecular Rotor and Translator at Work: On-Surface Movement of Single Atoms. <i>ACS Nano</i> , 2015, 9, 8394-8400.	14.6	31
40	ELS-LEED study of electronic excitations on Ag(110) and Ag(111). <i>Surface Science</i> , 1997, 388, 24-32.	1.9	28
41	Tuning the formation of discrete coordination nanostructures. <i>Chemical Communications</i> , 2015, 51, 12621-12624.	4.1	27
42	Buckling and band gap of the Ge(111)2 $\times$ 1 surface studied by low-temperature scanning tunneling microscopy. <i>Physical Review B</i> , 2001, 64, .	3.2	25
43	Unimolecular Logic Gate with Classical Input by Single Gold Atoms. <i>ACS Nano</i> , 2018, 12, 1139-1145.	14.6	24
44	ELS-LEED study of the surface plasmon dispersion on Ag surfaces. <i>Surface Science</i> , 1997, 388, 1-4.	1.9	23
45	On-surface synthesis of nitrogen-doped nanographenes with 5-7 membered rings. <i>Chemical Communications</i> , 2019, 55, 4731-4734.	4.1	23
46	Preparation of self-ordered molecular layers by pulse injection. <i>Surface Science</i> , 2006, 600, L143-L147.	1.9	22
47	Inducing the controlled rotation of single o-MeO-DMBI molecules anchored on Au(111). <i>Surface Science</i> , 2018, 678, 177-182.	1.9	21
48	The contact conductance on a molecular wire. <i>Chemical Physics Letters</i> , 2005, 408, 134-138.	2.6	20
49	Transmitting Stepwise Rotation among Three Molecule-Gear on the Au(111) Surface. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6892-6899.	4.6	19
50	Selective adsorption and desorption of electrons from image potential states. <i>Physical Review Letters</i> , 1994, 73, 822-825.	7.8	18
51	Launching and landing single molecular wheelbarrows on a Cu(100) surface. <i>Chemical Physics Letters</i> , 2006, 431, 219-222.	2.6	18
52	On-Surface Annulation Reaction Cascade for the Selective Synthesis of Diindenopyrene. <i>ACS Nano</i> , 2017, 11, 12419-12425.	14.6	18
53	Manipulation of Atoms and Molecules with the Low-Temperature Scanning Tunneling Microscope. <i>Japanese Journal of Applied Physics</i> , 2001, 40, 4409-4413.	1.5	17
54	The scanning tunnelling microscope as an operative tool: doing physics and chemistry with single atoms and molecules. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2004, 362, 1207-1216.	3.4	17

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55	STM manipulation of a subphthalocyanine double-wheel molecule on Au(111). <i>Journal of Physics Condensed Matter</i> , 2012, 24, 404001.	1.8	15
56	Influence of surface interband transitions on surface plasmon dispersion: K/Ag(110). <i>Europhysics Letters</i> , 1998, 43, 433-438.	2.0	14
57	Training for the 1st international nano-car race: the Dresden molecule-vehicle. <i>EPJ Applied Physics</i> , 2016, 76, 10001.	0.7	14
58	Growth of ultrathin nanostructured Ag films on Si(111) 7 $\times$ 7: a SPA-LEED study. <i>Surface Science</i> , 2000, 463, 22-28.	1.9	13
59	Contacting a single molecular wire by STM manipulation. <i>Applied Physics A: Materials Science and Processing</i> , 2005, 80, 913-920.	2.3	13
60	Contacting single molecules to metallic electrodes by scanning tunnelling microscope manipulation: model systems for molecular electronics. <i>Journal of Physics Condensed Matter</i> , 2006, 18, S1887-S1908.	1.8	13
61	K adsorption on Ag(110): effect on surface structure and surface electronic excitations. <i>Surface Science</i> , 1999, 424, 62-73.	1.9	12
62	HREELS and els-leed studies of surface plasmons on Ag and Pd single crystals. <i>Progress in Surface Science</i> , 1996, 53, 331-340.	8.3	11
63	Molecular Self-Assembly Driven by On-Surface Reduction: Anthracene and Tetracene on Au(111). <i>Journal of Physical Chemistry C</i> , 2017, 121, 20353-20358.	3.1	11
64	One-way rotation of a chemically anchored single molecule-rotor. <i>Nanoscale</i> , 2021, 13, 16077-16083.	5.6	11
65	Investigation of mechanical and electronic properties of large molecules by low temperature STM. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2003, 129, 149-155.	1.7	10
66	STM induced manipulation of azulene-based molecules and nanostructures: the role of the dipole moment. <i>Nanoscale</i> , 2020, 12, 24471-24476.	5.6	10
67	Structure and electronic properties of epitaxial metallic monolayers. <i>Surface Science</i> , 1999, 438, 178-184.	1.9	9
68	HREELS investigation of graphite monolayer stripes formed on stepped Ni(771). <i>Physical Review B</i> , 2001, 64, .	3.2	9
69	Interaction of a long molecular wire with a nanostructured surface: Violet Landers on Cu(211). <i>Chemical Physics Letters</i> , 2006, 428, 331-337.	2.6	9
70	Conformations and controlled manipulation of a long molecular wire on Cu(111). <i>Surface Science</i> , 2005, 585, 38-46.	1.9	7
71	Influence of organic ligands on the line shape of the Kondo resonance. <i>Physical Review B</i> , 2016, 93, .	3.2	7
72	Hexacene generated on passivated silicon. <i>Nanoscale</i> , 2018, 10, 12582-12587.	5.6	7

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73	LEED fine structures and trapping phenomena in inelastic scattering of electrons off Ag(001) and Ag(110). <i>Physical Review B</i> , 1994, 50, 18621-18628.	3.2	6
74	Collective excitations of thin films of disordered potassium adsorbed on Ag(110). <i>Surface Science</i> , 1999, 424, 55-61.	1.9	6
75	Molecules for organic electronics studied one by one. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 14421.	2.8	6
76	Electronically Driven Single-Molecule Switch on Silicon Dangling Bonds. <i>Journal of Physical Chemistry C</i> , 2016, 120, 27027-27032.	3.1	6
77	Force induced and electron stimulated STM manipulations: routes to artificial nanostructures as well as to molecular contacts, engines and switches. <i>Journal of Physics: Conference Series</i> , 2005, 19, 175-181.	0.4	5
78	Supramolecular chemistry based on 4-acetylbiphenyl on Au(111). <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 15208-15213.	2.8	5
79	Driving Molecular Machines Using the Tip of a Scanning Tunneling Microscope. <i>Advances in Atom and Single Molecule Machines</i> , 2015, , 165-186.	0.0	5
80	Manipulation of large molecules by low temperature STM. <i>Surface and Interface Analysis</i> , 2004, 36, 109-113.	1.8	4
81	Molecular Aggregation within Self-Ordered Monolayers. <i>ChemPhysChem</i> , 2007, 8, 245-249.	2.1	4
82	Tuning the conductance of a molecular wire by the interplay of donor and acceptor units. <i>Nanoscale</i> , 2018, 10, 17131-17139.	5.6	4
83	A combined experimental and theoretical study of 1,4-bis(phenylethynyl)-2,5-bis(ethoxy)benzene adsorption on Au(111). <i>Surface Science</i> , 2021, 712, 121877.	1.9	4
84	On-Surface Formation of Cyano-Vinylene Linked Chains by Knoevenagel Condensation. <i>Chemistry - A European Journal</i> , 2021, 27, 17336-17340.	3.3	4
85	Low-Temperature Scanning Tunneling Spectroscopy of Semiconductor Surfaces. <i>Acta Physica Polonica A</i> , 2003, 104, 205-216.	0.5	2
86	Molecular Repositioning to Study Mechanical and Electronic Properties of Large Molecules. , 2006, , 54-76.		1
87	Innovative Molecular Design for a Volume Oriented Component Diagnostic: Modified Magnetic Nanoparticles on High Performance Yarns for Smart Textiles. <i>Advanced Engineering Materials</i> , 2014, 16, 1276-1283.	3.5	1
88	Quantum coherence of bulk electrons on metals revealed by scanning tunneling spectroscopy. <i>Physical Review B</i> , 2014, 89, .	3.2	1
89	Molecule-Latches in Atomic Scale Surface Logic Gates Constructed on Si(100)H. <i>Advances in Atom and Single Molecule Machines</i> , 2017, , 157-175.	0.0	1
90	Describing chain-like assembly of ethoxygroup-functionalized organic molecules on Au(111) using high-throughput simulations. <i>Scientific Reports</i> , 2021, 11, 14649.	3.3	1

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91	Controlled Manipulation of Atoms and Small Molecules with a Low Temperature Scanning Tunneling Microscope. , 2000, 1, 79.		1
92	MANIPULATION OF ATOMS AND MOLECULES FOR CONSTRUCTION OF NANOSYSTEMS: THE SCANNING TUNNELING MICROSCOPE AS AN OPERATIVE TOOL. International Journal of Nanoscience, 2003, 02, 197-218.	0.7	0
93	Unimolecular Reactions on Metal Surfaces. , 2018, , .		0
94	Preparation of Tetrabenzo[4.4.2]undecastarphene by On-Surface Synthesis. ChemPlusChem, 2021, 86, 991-996.	2.8	0
95	Local Information with Scanning Tunneling Microscopy. Springer Handbooks, 2020, , 225-241.	0.6	0
96	Anchoring Molecular Rotors by On-Surface Synthesis. Advances in Atom and Single Molecule Machines, 2020, , 117-130.	0.0	0