Marco Sacchi

List of Publications by Year
in descending order

44 papers	1,077 citations	516710 16 h-index	414414 32 g-index
47 all docs	47 docs citations	47 times ranked	721 citing authors

#	Article	IF	Citations
1	The dehydrogenation of butane on metal-free graphene. Journal of Colloid and Interface Science, 2022, 619, 377-387.	9.4	8
2	Simulating the complete pyrolysis and charring process of phenolâ€“formaldehyde resins using reactive molecular dynamics. Journal of Materials Science, 2022, 57, 7600-7620.	3.7	10
3	An open quantum systems approach to proton tunnelling in DNA. Communications Physics, 2022, 5, .	5.3	31
4	Alkali metal adsorption on metal surfaces: new insights from new tools. Physical Chemistry Chemical Physics, 2021, 23, 7822-7829.	2.8	5
5	Halogen Bonding in Bicomponent Monolayers: Self-Assembly of a Homologous Series of Iodinated Perfluoroalkanes with Bipyridine. Langmuir, 2021, 37, 627-635.	3.5	3
6	Quantum and classical effects in DNA point mutations: Watsonâ€“Crick tautomerism in AT and GC base pairs. Physical Chemistry Chemical Physics, 2021, 23, 4141-4150.	2.8	35
7	Residual Chlorine Induced Cationic Active Species on a Porous Copper Electrocatalyst for Highly Stable Electrochemical CO₂ Reduction to C₂₊. Angewandte Chemie - International Edition, 2021, 60, 11487-11493.	13.8	145
8	Residual Chlorine Induced Cationic Active Species on a Porous Copper Electrocatalyst for Highly Stable Electrochemical CO 2 Reduction to C 2+. Angewandte Chemie, 2021, 133, 11588-11594.	2.0	15
9	Motion of water monomers reveals a kinetic barrier to ice nucleation on graphene. Nature Communications, 2021, 12, 3120.	12.8	20
10	Quantum Biology: An Update and Perspective. Quantum Reports, 2021, 3, 80-126.	1.3	74
11	Determining the Relative Structural Relevance of Halogen and Hydrogen Bonds in Self-Assembled Monolayers. Journal of Physical Chemistry C, 2021, 125, 27784-27792.	3.1	9
12	Nanoscopic diffusion of water on a topological insulator. Nature Communications, 2020, 11, 278.	12.8	19
13	â€œPop-On and Pop-Offâ€•Surface Chemistry of Alanine on Ni{111} under Elevated Hydrogen Pressures. Journal of Physical Chemistry C, 2018, 122, 7720-7730.	3.1	5
14	Ultrafast molecular transport on carbon surfaces: The diffusion of ammonia on graphite. Carbon, 2018, 126, 23-30.	10.3	9
15	The dynamics of benzene on Cu(111): a combined helium spin echo and dispersion-corrected DFT study into the diffusion of physisorbed aromatics on metal surfaces. Faraday Discussions, 2017, 204, 471-485.	3.2	11
16	Energy landscapes and dynamics of glycine on Cu(110). Physical Chemistry Chemical Physics, 2017, 19, 16600-16605.	2.8	1
17	Dipole-Moment Reversal in a Polar Organic Monolayer Probed by Sum and Difference Frequency Spectroscopy. Journal of Physical Chemistry C, 2017, 121, 6692-6700.	3.1	4
18	Probing properties of molecule-based interface systems: general discussion and Discussion of the Concluding Remarks. Faraday Discussions, 2017, 204, 503-530.	3.2	0

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19	Supramolecular systems at liquidâ€“solid interfaces: general discussion. Faraday Discussions, 2017, 204, 271-295.	3.2	2
20	Ballistic Diffusion in Polyaromatic Hydrocarbons on Graphite. Journal of Physical Chemistry Letters, 2016, 7, 5285-5290.	4.6	13
21	Mass Transport in Surface Diffusion of van der Waals Bonded Systems: Boosted by Rotations?. Journal of Physical Chemistry Letters, 2016, 7, 4819-4824.	4.6	14
22	Spontaneous Local Symmetry Breaking: A Conformational Study of Glycine on Cu{311}. Journal of Physical Chemistry C, 2015, 119, 13041-13049.	3.1	12
23	Repulsion-Induced Surface-Migration by Ballistics and Bounce. Journal of Physical Chemistry Letters, 2015, 6, 4093-4098.	4.6	8
24	Supramolecular self-assembled network formation containing Nâ‹¯Br halogen bonds in physisorbed overlayers. Physical Chemistry Chemical Physics, 2014, 16, 19608-19617.	2.8	10
25	Self-Organized Overlayers Formed by Alanine on Cu{311} Surfaces. Journal of Physical Chemistry C, 2014, 118, 18589-18603.	3.1	14
26	Co-adsorption of water and glycine on Cu{110}. Physical Chemistry Chemical Physics, 2014, 16, 6101.	2.8	19
27	Combined Diffraction and Density Functional Theory Calculations of Halogen-Bonded Cocrystal Monolayers. Langmuir, 2013, 29, 14903-14911.	3.5	15
28	Quantum Influences in the Diffusive Motion of Pyrrole on Cu(111). Angewandte Chemie - International Edition, 2013, 52, 5085-5088.	13.8	16
29	Jumping, Rotating, and Flapping: The Atomic-Scale Motion of Thiophene on Cu(111). Journal of Physical Chemistry Letters, 2013, 4, 1953-1958.	4.6	14
30	The crystalline structure of the phenazine overlayer physisorbed on a graphite surface. Molecular Physics, 2013, 111, 3823-3830.	1.7	6
31	Innentitelbild: Quantum Influences in the Diffusive Motion of Pyrrole on Cu(111) (Angew. Chem.) Tj ETQq1 1 0.784314 rgBT /Overloc	2.0	0
32	Mode-specificity and transition state-specific energy redistribution in the chemisorption of CH4 on Ni{100}. Physical Chemistry Chemical Physics, 2012, 14, 15879.	2.8	33
33	Coverage-Dependent Structural Evolution in the Interaction of NO₂ with Au{111}. Journal of Physical Chemistry C, 2012, 116, 5637-5645.	3.1	5
34	Bond-selective energy redistribution in the chemisorption of CH3D and CD3H on Pt{110}-(1Ã—2): A first-principles molecular dynamics study. Computational and Theoretical Chemistry, 2012, 990, 144-151.	2.5	20
35	The interaction of iron pyrite with oxygen, nitrogen and nitrogen oxides: a first-principles study. Physical Chemistry Chemical Physics, 2012, 14, 3627.	2.8	27
36	Weak Intermolecular Interactions in an Ionically Bound Molecular Adsorbate:Cyclopentadienyl/Cu(111). Physical Review Letters, 2011, 106, 186101.	7.8	20

#	Article	IF	Citations
37	Mode-Specific Chemisorption of CH₄ on Pt{110}-(1 Ã— 2) Explored by First-Principles Molecular Dynamics. Journal of Physical Chemistry C, 2011, 115, 21832-21842.	3.1	37
38	Electronic Structure and Bonding of an Ionic Molecular Adsorbate: c-C5H5 on Cu{111}. Journal of Physical Chemistry C, 2011, 115, 16134-16141.	3.1	9
39	Mode-specific reactivity of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>CH</mml:mtext></mml:mrow><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> xmlns:mml="http://www.w3.org/1998/Math/MathML"		