

Dimas G De Oteyza

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96
papers

3,918
citations

32
h-index

61
g-index

104
ext. papers

4,568
ext. citations

9.3
avg, IF

5.58
L-index

#	Paper	IF	Citations
96	Direct imaging of covalent bond structure in single-molecule chemical reactions. <i>Science</i> , 2013 , 340, 1434-37	37.3	433
95	Tuning the band gap of graphene nanoribbons synthesized from molecular precursors. <i>ACS Nano</i> , 2013 , 7, 6123-8	16.7	425
94	Molecular bandgap engineering of bottom-up synthesized graphene nanoribbon heterojunctions. <i>Nature Nanotechnology</i> , 2015 , 10, 156-60	28.7	340
93	Controlling a Chemical Coupling Reaction on a Surface: Tools and Strategies for On-Surface Synthesis. <i>Chemical Reviews</i> , 2019 , 119, 4717-4776	68.1	250
92	Bottom-up graphene nanoribbon field-effect transistors. <i>Applied Physics Letters</i> , 2013 , 103, 253114	3.4	178
91	Substrate-Independent Growth of Atomically Precise Chiral Graphene Nanoribbons. <i>ACS Nano</i> , 2016 , 10, 9000-8	16.7	119
90	Imaging single-molecule reaction intermediates stabilized by surface dissipation and entropy. <i>Nature Chemistry</i> , 2016 , 8, 678-83	17.6	102
89	Thickness-dependent structural transitions in fluorinated copper-phthalocyanine (F16CuPc) films. <i>Journal of the American Chemical Society</i> , 2006 , 128, 15052-3	16.4	101
88	Local electronic and chemical structure of oligo-acetylene derivatives formed through radical cyclizations at a surface. <i>Nano Letters</i> , 2014 , 14, 2251-5	11.5	98
87	Width-Dependent Band Gap in Armchair Graphene Nanoribbons Reveals Fermi Level Pinning on Au(111). <i>ACS Nano</i> , 2017 , 11, 11661-11668	16.7	97
86	Copper-phthalocyanine based metal-organic interfaces: the effect of fluorination, the substrate, and its symmetry. <i>Journal of Chemical Physics</i> , 2010 , 133, 214703	3.9	83
85	2D supramolecular self-assembly of binary organic monolayers. <i>ChemPhysChem</i> , 2007 , 8, 1915-8	3.2	78
84	Understanding energy-level alignment in donor-acceptor/metal interfaces from core-level shifts. <i>ACS Nano</i> , 2013 , 7, 6914-20	16.7	71
83	Multi-Component Organic Layers on Metal Substrates. <i>Advanced Materials</i> , 2016 , 28, 1340-68	24	66
82	Three-dimensional molecular packing of thin organic films of PTCDI-C8 determined by surface X-ray diffraction. <i>Langmuir</i> , 2008 , 24, 12742-4	4	61
81	Determination of the nanoscale dielectric constant by means of a double pass method using electrostatic force microscopy. <i>Journal of Applied Physics</i> , 2009 , 106, 024315	2.5	59
80	Survival of spin state in magnetic porphyrins contacted by graphene nanoribbons. <i>Science Advances</i> , 2018 , 4, eaaq0582	14.3	56

79	Balancing Intermolecular and MoleculeSubstrate Interactions in Supramolecular Assemblies. <i>Advanced Functional Materials</i> , 2009 , 19, 259-264	15.6	55
78	Structural rearrangements during the initial growth stages of organic thin films of F16CuPc on SiO ₂ . <i>Journal of Physical Chemistry B</i> , 2006 , 110, 16618-23	3.4	52
77	Controlled enhancement of the electron field-effect mobility of F16CuPc thin-film transistors by use of functionalized SiO ₂ substrates. <i>Applied Physics Letters</i> , 2005 , 87, 183504	3.4	51
76	Customized Electronic Coupling in Self-Assembled DonorAcceptor Nanostructures. <i>Advanced Functional Materials</i> , 2009 , 19, 3567-3573	15.6	50
75	Transition from layer-by-layer to rapid roughening in the growth of DIP on SiO ₂ . <i>Surface Science</i> , 2007 , 601, 2420-2425	1.8	45
74	Solid-state reactions in binary molecular assemblies of F16CuPc and pentacene. <i>ACS Nano</i> , 2011 , 5, 581-9	16.7	42
73	Evidence for a layer-dependent Ehrlich-Schwöbel barrier in organic thin film growth. <i>Physical Review Letters</i> , 2009 , 103, 136101	7.4	42
72	In situ oxidation study of MgO(100) supported Pd nanoparticles. <i>Surface Science</i> , 2006 , 600, 2860-2867	1.8	40
71	Crystallographic and Electronic Structure of Self-Assembled DIP Monolayers on Au(111) Substrates. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 7168-7172	3.8	38
70	In situ study of the growth of nanodots in organic heteroepitaxy. <i>Physical Review Letters</i> , 2006 , 97, 076102	7.4	37
69	X-ray/Atomic Force Microscopy Study of the Temperature-Dependent Multilayer Structure of PTCDI-C8 Films on SiO ₂ . <i>Journal of Physical Chemistry C</i> , 2009 , 113, 4502-4506	3.8	36
68	Understanding Charge Transfer in DonorAcceptor/Metal Systems: A Combined Theoretical and Experimental Study. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 17991-18001	3.8	35
67	Band Dispersion along Conjugated Organic Nanowires Synthesized on a Metal Oxide Semiconductor. <i>Journal of the American Chemical Society</i> , 2016 , 138, 5685-92	16.4	35
66	Probing the Magnetism of Topological End States in 5-Armchair Graphene Nanoribbons. <i>ACS Nano</i> , 2020 , 14, 4499-4508	16.7	33
65	Tunable Band Alignment with Unperturbed Carrier Mobility of On-Surface Synthesized Organic Semiconducting Wires. <i>ACS Nano</i> , 2016 , 10, 2644-51	16.7	32
64	Self-assembled molecular nanowires of 6,13-Bis(methylthio)pentacene: growth, electrical properties, and applications. <i>Nano Letters</i> , 2008 , 8, 3273-7	11.5	31
63	Unraveling the Electronic Structure of Narrow Atomically Precise Chiral Graphene Nanoribbons. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 25-30	6.4	31
62	Spectroscopic fingerprints of work-function-controlled phthalocyanine charging on metal surfaces. <i>ACS Nano</i> , 2014 , 8, 12786-95	16.7	30

61	Self-assembly of bicomponent molecular monolayers: adsorption height changes and their consequences. <i>Physical Review Letters</i> , 2014 , 112, 117602	7.4	29
60	Switching from Reactant to Substrate Engineering in the Selective Synthesis of Graphene Nanoribbons. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 2510-2517	6.4	24
59	On-surface synthesis of heptacene on Ag(001) from brominated and non-brominated tetrahydroheptacene precursors. <i>Chemical Communications</i> , 2018 , 54, 10260-10263	5.8	24
58	Experimental Relation between Stranski-Krastanov Growth of DIP/F16CoPc Heterostructures and the Reconstruction of the Organic Interface. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 4234-4239	3.8	24
57	Nanoconfinement effects in the self-assembly of diindenoperylene (DIP) on Cu(111) surfaces. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 8741-4	3.6	24
56	Supramolecular Environment-Dependent Electronic Properties of Metal-Organic Interfaces.. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 4780-4785	3.8	22
55	Effect of fluorination on the molecule-substrate interactions of pentacene/Cu(100) interfaces. <i>Chemical Physics Letters</i> , 2010 , 490, 54-57	2.5	22
54	Towards controlled bottom-up architectures in organic heterostructures. <i>Applied Physics Letters</i> , 2007 , 90, 243104	3.4	22
53	Non-covalent interactions in supramolecular assemblies investigated with electron spectroscopies. <i>ChemPhysChem</i> , 2009 , 10, 896-900	3.2	21
52	Electrically Addressing the Spin of a Magnetic Porphyrin through Covalently Connected Graphene Electrodes. <i>Nano Letters</i> , 2019 , 19, 3288-3294	11.5	20
51	Inversed linear dichroism in F K-edge NEXAFS spectra of fluorinated planar aromatic molecules. <i>Physical Review B</i> , 2012 , 86,	3.3	20
50	Site-Selective Molecular Organization in Organic Heterostructures. <i>Chemistry of Materials</i> , 2006 , 18, 4213-4214	4.8	18
49	Tunable symmetry and periodicity in binary supramolecular nanostructures. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 4220-3	3.6	17
48	Electronic Properties of Substitutionally Boron-Doped Graphene Nanoribbons on a Au(111) Surface. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 16092-16099	3.8	17
47	Transferring axial molecular chirality through a sequence of on-surface reactions. <i>Chemical Science</i> , 2020 , 11, 5441-5446	9.4	15
46	Bottom-Up Fabrication of Atomically Precise Graphene Nanoribbons. <i>Advances in Atom and Single Molecule Machines</i> , 2018 , 113-152	0	14
45	Noncovalent Dimerization after Eneidyne Cyclization on Au(111). <i>Journal of the American Chemical Society</i> , 2016 , 138, 10963-7	16.4	14
44	Electronic Structure Tunability by Periodic meta-Ligand Spacing in One-Dimensional Organic Semiconductors. <i>ACS Nano</i> , 2018 , 12, 10537-10544	16.7	13

43	Topological phase transition in chiral graphene nanoribbons: from edge bands to end states. <i>Nature Communications</i> , 2021 , 12, 5538	17.4	13
42	Single Photon Emission from a Plasmonic Light Source Driven by a Local Field-Induced Coulomb Blockade. <i>ACS Nano</i> , 2020 , 14, 4216-4223	16.7	11
41	Band Depopulation of Graphene Nanoribbons Induced by Chemical Gating with Amino Groups. <i>ACS Nano</i> , 2020 , 14, 1895-1901	16.7	11
40	On-Surface Synthesis II. <i>Advances in Atom and Single Molecule Machines</i> , 2018 ,	0	11
39	Understanding Periodic Dislocations in 2D Supramolecular Crystals: The PFP/Ag(111) Interface. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 848-52	6.4	11
38	New aspects of porphyrins and related compounds: self-assembled structures in two-dimensional molecular arrays. <i>Journal of Porphyrins and Phthalocyanines</i> , 2009 , 13, 22-34	1.8	11
37	Step-doubling at Vicinal Ni(111) Surfaces Investigated with a Curved Crystal. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 3880-3886	3.8	10
36	STM study of di-indenoperylene molecules on Cu(100) surfaces: Mobility, stability and epitaxy. <i>Surface Science</i> , 2009 , 603, 3179-3183	1.8	10
35	Role of the substrate thickness for the structural properties of organicorganic heterostructures. <i>Surface Science</i> , 2007 , 601, 4117-4121	1.8	9
34	Growth of di-indenoperylene single crystals on amino-functionalized SiO ₂ surfaces. <i>Journal of Applied Physics</i> , 2008 , 104, 104308	2.5	8
33	Reassessing Alkyne Coupling Reactions While Studying the Electronic Properties of Diverse Pyrene Linkages at Surfaces. <i>ACS Nano</i> , 2021 , 15, 4937-4946	16.7	8
32	A Large Starphene Comprising Pentacene Branches. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 7752-7758	16.4	8
31	Molecular-Level Realignment in DonorAcceptor Bilayer Blends on Metals. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 5997-6005	3.8	7
30	Asymmetric Response toward Molecular Fluorination in Binary CopperPhthalocyanine/Pentacene Assemblies. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 18626-18630	3.8	7
29	Sub-20nm laser ablation for lithographic dry development. <i>Nanotechnology</i> , 2012 , 23, 185301	3.4	7
28	Chemical Stability of (3,1)-Chiral Graphene Nanoribbons. <i>ACS Nano</i> , 2021 , 15, 5610-5617	16.7	7
27	Reversible Graphene decoupling by NaCl photo-dissociation. <i>2D Materials</i> , 2019 , 6,	5.9	6
26	Steering alkyne homocoupling with on-surface synthesized metal-organic complexes. <i>Chemical Communications</i> , 2020 , 56, 8659-8662	5.8	6

25	Hierarchy in the Halogen Activation During Surface-Promoted Ullmann Coupling. <i>ChemPhysChem</i> , 2019 , 20, 2305-2310	3.2	6
24	Molecular structure and growth morphologies of pentacene/fluorinated copper-phthalocyanine heterostructures. <i>Thin Solid Films</i> , 2008 , 516, 7525-7529	2.2	6
23	Magnetic Interactions Between Radical Pairs in Chiral Graphene Nanoribbons.. <i>Nano Letters</i> , 2021 ,	11.5	6
22	Symmetry, Shape, and Energy Variations in Frontier Molecular Orbitals at Organic/Metal Interfaces: The Case of F4TCNQ. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 28412-28419	3.8	5
21	Dielectric properties of thin insulating layers measured by Electrostatic Force Microscopy. <i>EPJ Applied Physics</i> , 2010 , 50, 10501	1.1	4
20	On-Surface Synthesis of a Five-Membered Carbon Ring from a Terminal Alkynyl Bromide: A [4 + 1] Annulation. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 5902-5907	6.4	3
19	Controlling the stereospecific bonding motif of Au-thiolate links. <i>Nanoscale</i> , 2019 , 11, 15567-15575	7.7	3
18	Selective Laser Ablation in Resists and Block Copolymers for High Resolution Lithographic Patterning. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2015 , 28, 663-668	8.7	3
17	Publisher's Note: Self-Assembly of Bicomponent Molecular Monolayers: Adsorption Height Changes and Their Consequences [Phys. Rev. Lett. 112, 117602 (2014)]. <i>Physical Review Letters</i> , 2014 , 112,	7.4	2
16	Selective laser ablation of radiation exposed methyl acetoxy calix(6)arene. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2012 , 30, 06F102	1.3	2
15	Eneidyne Cyclization Chemistry on Surfaces Under Ultra-High Vacuum. <i>Advances in Atom and Single Molecule Machines</i> , 2016 , 85-99	0	2
14	Transformation of a graphene nanoribbon into a hybrid 1D nanoobject with alternating double chains and polycyclic regions. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 425-441	3.6	2
13	A Large Starphene Comprising Pentacene Branches. <i>Angewandte Chemie</i> , 2021 , 133, 7831-7837	3.6	2
12	From starphenes to non-benzenoid linear conjugated polymers by substrate templating. <i>Nanoscale Advances</i> , 2021 , 3, 2351-2358	5.1	2
11	Synthesis of Graphene Nanoribbons on a Kinked Au Surface: Revealing the Frontier Valence Band at the Brillouin Zone Center. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 15474-15480	3.8	1
10	Keto-enol tautomerization drives the self-assembly of leucoquinizarin on Au(111). <i>Chemical Communications</i> , 2020 , 56, 2833-2836	5.8	1
9	Order from a Mess: The Growth of 5-Armchair Graphene Nanoribbons. <i>ACS Nano</i> , 2021 , 15, 16552-16561	16.7	1
8	Electronic decoupling of polyacenes from the underlying metal substrate by sp ³ carbon atoms. <i>Communications Physics</i> , 2020 , 3,	5.4	1

- 7 Atomically-Precise Texturing of Hexagonal Boron Nitride Nanostripes. *Advanced Science*, **2021**, 8, e2101455 3.5 1
- 6 Topological engineering for metallic polymers. *Nature Nanotechnology*, **2020**, 15, 421-423 28.7 1
- 5 Challenges in the synthesis of corannulene-based non-planar nanographenes on Au(111) surfaces. *Physical Chemistry Chemical Physics*, **2021**, 23, 10845-10851 3.6 1
- 4 Why a Good Catalyst Can Turn Out Detrimental to Good Polymerization. *Journal of Physical Chemistry C*, **2021**, 125, 5066-5075 3.8 0
- 3 Decacyclene Trianhydride at Functional Interfaces: An Ideal Electron Acceptor Material for Organic Electronics. *Journal of Physical Chemistry Letters*, **2016**, 7, 90-5 6.4
- 2 Binary Molecules for Two-dimensional Molecular Alloys. *Hyomen Kagaku*, **2008**, 29, 421-426
- 1 Innenrücktitelbild: A Large Starphene Comprising Pentacene Branches (Angew. Chem. 14/2021). *Angewandte Chemie*, **2021**, 133, 8059-8059 3.6