

Jos M Gallego

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96
papers

3,066
citations

28
h-index

54
g-index

104
ext. papers

3,231
ext. citations

6.2
avg, IF

4.57
L-index

#	Paper	IF	Citations
96	Charge-transfer-induced structural rearrangements at both sides of organic/metal interfaces. <i>Nature Chemistry</i> , 2010 , 2, 374-9	17.6	244
95	Influence of the growth conditions on the magnetic properties of fcc cobalt films: from monolayers to superlattices. <i>Journal of Magnetism and Magnetic Materials</i> , 1991 , 93, 1-9	2.8	174
94	Molecular self-assembly at solid surfaces. <i>Advanced Materials</i> , 2011 , 23, 5148-76	24	167
93	Antiferromagnetic ordering in Co-Cu single-crystal superlattices. <i>Physical Review B</i> , 1989 , 39, 9726-9729	3.3	139
92	The surface morphology of a growing crystal studied by thermal energy atom scattering (TEAS). <i>Surface Science</i> , 1987 , 189-190, 1062-1068	1.8	117
91	Atomistic Mechanism of Surfactant-Assisted Epitaxial Growth. <i>Physical Review Letters</i> , 1998 , 81, 850-853	7.4	116
90	Electronic, structural and chemical effects of charge-transfer at organic/inorganic interfaces. <i>Surface Science Reports</i> , 2017 , 72, 105-145	12.9	110
89	Ordering fullerenes at the nanometer scale on solid surfaces. <i>Chemical Reviews</i> , 2009 , 109, 2081-91	68.1	105
88	Metallization-induced spontaneous silicide formation at room temperature: The Fe/Si case. <i>Physical Review B</i> , 1992 , 46, 13339-13344	3.3	86
87	The Fe/Si(100) interface. <i>Journal of Applied Physics</i> , 1991 , 69, 1377-1383	2.5	86
86	Increased exchange anisotropy due to disorder at permalloy/CoO interfaces. <i>Journal of Applied Physics</i> , 1995 , 78, 1887-1891	2.5	83
85	Characterization of the growth processes and magnetic properties of thin ferromagnetic cobalt films on Cu(100). <i>Surface Science</i> , 1989 , 211-212, 732-739	1.8	81
84	Quantitative evaluation of the perfection of an epitaxial film grown by vapor deposition as determined by thermal energy atom scattering. <i>Journal of Crystal Growth</i> , 1988 , 88, 442-454	1.6	81
83	Formation of a surface covalent organic framework based on polyester condensation. <i>Chemical Communications</i> , 2012 , 48, 6779-81	5.8	78
82	Molecular Conformation, Organizational Chirality, and Iron Metalation of meso-Tetramesitylporphyrins on Copper(100). <i>Journal of Physical Chemistry C</i> , 2008 , 112, 8988-8994	3.8	64
81	Crossover site-selectivity in the adsorption of the fullerene derivative PCBM on Au(111). <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 7874-7	16.4	62
80	Mechanisms of epitaxial growth and magnetic properties of Fe ₄ N(100) films on Cu(100). <i>Physical Review B</i> , 2004 , 70,	3.3	61

79	Shape Evolution of CdSe Nanoparticles Controlled by Halogen Compounds. <i>Chemistry of Materials</i> , 2014 , 26, 1813-1821	9.6	59
78	Thermal selectivity of intermolecular versus intramolecular reactions on surfaces. <i>Nature Communications</i> , 2016 , 7, 11002	17.4	58
77	Fe thin-film growth on Au(100): A self-surfactant effect and its limitations. <i>Physical Review B</i> , 1999 , 59, 15966-15974	3.3	58
76	An organic donor/acceptor lateral superlattice at the nanoscale. <i>Nano Letters</i> , 2007 , 7, 2602-7	11.5	56
75	Self-surfactant effect on Fe/Au(100):. <i>Surface Science</i> , 1998 , 415, 106-121	1.8	54
74	Growth of cobalt and cobalt disilicide on Si(100). <i>Surface Science</i> , 1990 , 239, 203-212	1.8	48
73	Surface characterization of epitaxial, semiconducting, FeSi ₂ grown on Si(100). <i>Applied Physics Letters</i> , 1991 , 59, 99-101	3.4	41
72	Oscillatory behavior of the transport properties in Ni/Co multilayers: A superlattice effect. <i>Physical Review Letters</i> , 1995 , 74, 4515-4518	7.4	40
71	Influence of surfactants on atomic diffusion. <i>Surface Science</i> , 2000 , 459, 135-148	1.8	35
70	Surface-Supported Robust 2D Lanthanide-Carboxylate Coordination Networks. <i>Small</i> , 2015 , 11, 6358-6411		34
69	Electronic structure of ultrathin $\sqrt{3}\times\sqrt{3}$ -Fe ₄ N (100) films epitaxially grown on Cu(100). <i>Physical Review B</i> , 2007 , 75,	3.3	28
68	Magnetisation reversal of epitaxial films of $\sqrt{3}\times\sqrt{3}$ -Fe ₄ N on Cu(1 0 0). <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 316, 321-324	2.8	27
67	Temperature-controlled metal/ligand stoichiometric ratio in Ag-TCNE coordination networks. <i>Journal of Chemical Physics</i> , 2015 , 142, 101930	3.9	26
66	1D lattice distortions as the origin of the (2 x 2) _{p4gm} reconstruction in gamma-Fe ₄ N(100): a magnetism-induced surface reconstruction. <i>Physical Review Letters</i> , 2005 , 95, 136102	7.4	26
65	Large magnetoresistance with low saturation fields in magnetic/magnetic superlattices. <i>Applied Physics Letters</i> , 1994 , 64, 2590-2592	3.4	26
64	The growth and characterization of iron silicides on Si(100). <i>Surface Science</i> , 1991 , 251-252, 59-63	1.8	26
63	Self-assembled magnetic nitride dots on Cu(100) surfaces. <i>Physical Review B</i> , 2004 , 69,	3.3	24
62	Effect of Chloride Ligands on CdSe Nanocrystals by Cyclic Voltammetry and X-ray Photoelectron Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 4998-5004	3.8	22

61	Interfacing quantum dots and graphitic surfaces with chlorine atomic ligands. <i>ACS Nano</i> , 2013 , 7, 2559-656.7	2.2	22
60	Role of Deprotonation and Cu Adatom Migration in Determining the Reaction Pathways of Oxalic Acid Adsorption on Cu(111). <i>Journal of Physical Chemistry C</i> , 2011 , 115, 21177-21182	3.8	21
59	Epitaxial growth of metals with high Ehrlich-Schwoebel barriers and the effect of surfactants. <i>Applied Physics A: Materials Science and Processing</i> , 1999 , 69, 553-557	2.6	21
58	Epitaxial growth of metals: Experimental results and Monte Carlo simulation. <i>Surface Science</i> , 1989 , 211-212, 797-803	1.8	21
57	Protective ligand shells for luminescent SiO ₂ -coated alloyed semiconductor nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 6935-45	9.5	20
56	Dysprosium-carboxylate nanomeshes with tunable cavity size and assembly motif through ionic interactions. <i>Chemical Communications</i> , 2016 , 52, 11227-30	5.8	19
55	Symmetry breaking effects in epitaxial magnetic thin films: Nonsymmetric reversal and butterfly remanence behavior. <i>Physical Review B</i> , 2008 , 77,	3.3	19
54	Bimodal island-size distributions in submonolayer growth. <i>Physical Review B</i> , 2001 , 64,	3.3	19
53	Growth and structural characterization of Ni/Co superlattices. <i>Physical Review B</i> , 1995 , 51, 2550-2555	3.3	19
52	Efficient Lanthanide Catalyzed Debromination and Oligomeric Length-Controlled Ullmann Coupling of Aryl Halides. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 8033-8041	3.8	18
51	Long-Range Orientational Self-Assembly, Spatially Controlled Deprotonation, and Off-Centered Metalation of an Expanded Porphyrin. <i>Journal of the American Chemical Society</i> , 2017 , 139, 14129-14136	16.4	18
50	A scanning tunnelling microscopy view of the surfactant-assisted growth of iron on Cu(111). <i>Surface Science</i> , 2000 , 462, 45-54	1.8	18
49	Subphthalocyanine-based nanocrystals. <i>Chemical Communications</i> , 2011 , 47, 9986-8	5.8	17
48	Monte Carlo simulation of the growth of a Cu(100) surface from its own vapor; island nucleation and step propagation growth modes. <i>Journal of Crystal Growth</i> , 1988 , 91, 481-489	1.6	17
47	Charge transfer-assisted self-limited decyanation reaction of TCNQ-type electron acceptors on Cu(100). <i>Chemical Communications</i> , 2014 , 50, 833-5	5.8	16
46	Growth and Structure of Self-assembled Monolayers of a TTF Derivative on Au(111). <i>Journal of Physical Chemistry C</i> , 2010 , 114, 6503-6510	3.8	16
45	Surfactant effect of Pb in the growth of Fe on Cu(111): A kinetic effect. <i>Physical Review B</i> , 2001 , 65,	3.3	14
44	Cl-capped CdSe nanocrystals via in situ generation of chloride anions. <i>Nanoscale</i> , 2014 , 6, 6812-8	7.7	12

43	Initial growth of Fe on Au(100): preferential nucleation, place exchange and enhanced mass transport. <i>Applied Physics A: Materials Science and Processing</i> , 1998 , 66, S1117-S1120	2.6	12
42	Templated growth of an ordered array of organic bidimensional mesopores. <i>Applied Physics Letters</i> , 2008 , 92, 223117	3.4	12
41	Growth of epitaxial iron disilicide on Si(100). <i>Surface Science</i> , 1992 , 269-270, 1016-1021	1.8	12
40	Unravelling the Open-Shell Character of Peripentacene on Au(111). <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 330-336	6.4	12
39	Tuning Intermolecular Charge Transfer in Donor-Acceptor Two-Dimensional Crystals on Metal Surfaces. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 23505-23510	3.8	11
38	Electron localization in Co/Ni superlattices. <i>Physical Review B</i> , 1996 , 54, R5291-R5294	3.3	10
37	An STM study of molecular exchange processes in organic thin film growth. <i>Chemical Communications</i> , 2014 , 50, 9954-7	5.8	9
36	Role of the Anchored Groups in the Bonding and Self-Organization of Macrocycles: Carboxylic versus Pyrrole Groups. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 7661-7668	3.8	8
35	Surface assembly of porphyrin nanorods with one-dimensional zinc-oxygen spinal cords. <i>CrystEngComm</i> , 2011 , 13, 5591	3.3	8
34	The adsorption of atomic N and the growth of copper nitrides on Cu(100). <i>Surface Science</i> , 2009 , 603, 2283-2289	1.8	8
33	Superlattice effect in the transport properties of Ni/Co multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 1998 , 183, 261-271	2.8	6
32	Relating Surface Structure and Growth Mode of $\sqrt{3}\times\sqrt{3}$ -Fe ₄ N. <i>Surface Review and Letters</i> , 2003 , 10, 405-411	1.1	6
31	Neutron-diffraction study on the field dependent magnetic ordering in Co/Cu superlattices. <i>Journal of Magnetism and Magnetic Materials</i> , 1991 , 93, 89-94	2.8	6
30	Epitaxial growth of metals: from monolayer to superlattice. <i>Vacuum</i> , 1990 , 41, 482-484	3.7	6
29	Shell or Dots Precursor Controlled Morphology of Au/Be Deposits on CdSe Nanoparticles. <i>Chemistry of Materials</i> , 2016 , 28, 2704-2714	9.6	6
28	Metal-Coordination Network vs Charge Transfer Complex: The Importance of the Surface. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 7922-7929	3.8	5
27	Formation of self-assembled chains of tetrathiafulvalene on a Cu(100) surface. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 13080-7	2.8	5
26	A combined LEIS/STM study of two types of surface reconstruction of magnetic Fe ₄ N layers. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004 , 219-220, 593-598	1.2	5

25	Comparison between surface and bulk hysteresis loops in amorphous wires. <i>Journal of Magnetism and Magnetic Materials</i> , 2002 , 242-245, 1435-1438	2.8	5
24	A Comparative Computational Study of the Adsorption of TCNQ and F4-TCNQ on the Coinage Metal Surfaces. <i>ACS Omega</i> , 2019 , 4, 16906-16915	3.9	4
23	Dysprosium-directed metallocsupramolecular network on graphene/Ir(111). <i>Chemical Communications</i> , 2021 , 57, 1380-1383	5.8	4
22	Preservation of electronic properties of double-decker complexes on metallic supports. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 8282-8287	3.6	3
21	Thermal Transition from a Disordered, 2D Network to a Regular, 1D, Fe(II)DCNQI Coordination Network. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 16712-16721	3.8	3
20	Charge-Transfer-Induced Isomerization of DCNQI on Cu(100). <i>Journal of Physical Chemistry C</i> , 2014 , 118, 27388-27392	3.8	3
19	Magnetization Processes Analysis in Co-Cu Superlattices. <i>Materials Research Society Symposia Proceedings</i> , 1989 , 151, 117		3
18	Thermal Ligand Desorption in CdSe Quantum Dots by Correlated XPS and STM. <i>Particle and Particle Systems Characterization</i> , 2016 , 33, 358-362	3.1	3
17	Collective concerted motion in a molecular adlayer visualized through the surface diffusion of isolated vacancies. <i>Journal of Chemical Physics</i> , 2016 , 145, 154706	3.9	2
16	Oscillations of the transport properties in Ni/Co superlattices. <i>Journal of Magnetism and Magnetic Materials</i> , 1996 , 156, 397-398	2.8	2
15	Electrically Tunable Reactivity of Substrate-Supported Cobalt Oxide Nanocrystals.. <i>Small</i> , 2022 , e21064071		2
14	Tuning the Magnetic Anisotropy of Lanthanides on a Metal Substrate by Metal-Organic Coordination. <i>Small</i> , 2021 , 17, e2102753	11	2
13	Cumulene-like bridged indeno[1,2-b]fluorene π -conjugated polymers synthesized on metal surfaces. <i>Chemical Communications</i> , 2021 , 57, 7545-7548	5.8	2
12	On-Surface Synthesis of a Dicationic Diazahexabenzocoronene Derivative on the Au(111) Surface. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25551-25556	16.4	2
11	Discrete Electronic Subbands due to Bragg Scattering at Molecular Edges. <i>Physical Review Letters</i> , 2019 , 122, 176801	7.4	1
10	The Growth of Organic Nanomaterials by Molecular Self-Assembly at Solid Surfaces 2013 , 421-446		1
9	Metallic nanoislands: preferential nucleation, intermixing and electronic states. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 4187-4198	1.8	1
8	Magnetization processes in ultrathin films with high magnetization and perpendicular anisotropy. <i>Journal of Magnetism and Magnetic Materials</i> , 1996 , 156, 145-147	2.8	1

7	On the Magnetic Properties of Ultrathin Epitaxial Cobalt Films and Superlattices. <i>NATO ASI Series Series B: Physics</i> , 1990 , 483-499		1
6	Engineering Periodic Dinuclear Lanthanide-Directed Networks Featuring Tunable Energy Level Alignment and Magnetic Anisotropy by Metal Exchange.. <i>Small</i> , 2022 , e2107073	11	1
5	Supramolecular Chemistry of Fullerenes on Solid Surfaces 2012 , 237-261		0
4	Lanthanide-porphyrin species as Kondo irreversible switches through tip-induced coordination chemistry. <i>Nanoscale</i> , 2021 , 13, 8600-8606	7.7	0
3	Surface-Assisted Synthesis of N - Containing π -Conjugated Polymers. <i>Advanced Science</i> , 2200407	13.6	0
2	Spatiotemporal evolution of reaction fronts trigger by tunneling electrons. <i>Journal of Physics: Conference Series</i> , 2012 , 388, 052070	0.3	
1	A structural characterization of the buffer layer for growth of magnetically coupled Co/Cu superlattices. <i>Journal of Magnetism and Magnetic Materials</i> , 1993 , 121, 20-23	2.8	