

Francesco Bisio

List of Publications by Year in descending order

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94
papers

1,585
citations

361045

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h-index

344852

36
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95
all docs

95
docs citations

95
times ranked

2341
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Ultraviolet Plasmon Resonance in Aluminum Nanoparticle Arrays. ACS Nano, 2013, 7, 5834-5841.	7.3	170
2	Rapid CVD growth of millimetre-sized single crystal graphene using a cold-wall reactor. 2D Materials, 2015, 2, 014006.	2.0	143
3	Optical Characterization of Thiolate Self-Assembled Monolayers on Au(111). Journal of Physical Chemistry C, 2008, 112, 3899-3906.	1.5	70
4	Isolating the Step Contribution to the Uniaxial Magnetic Anisotropy in Nanostructured Fe/Ag(001) Films. Physical Review Letters, 2006, 96, 057204.	2.9	69
5	Mechanisms of High-Order Perturbative Photoemission from Cu(001). Physical Review Letters, 2006, 96, 087601.	2.9	63
6	Pushing the High-Energy Limit of Plasmonics. ACS Nano, 2014, 8, 9239-9247.	7.3	57
7	Structural versus Magnetic Properties at the Surface of Fe Films during Oxygen-Assisted Homoepitaxial Growth. Physical Review Letters, 1999, 83, 4868-4871.	2.9	41
8	Modulation of resistance switching in Au/Nb:SrTiO ₃ Schottky junctions by ambient oxygen. Applied Physics Letters, 2012, 101, 243505.	1.5	40
9	Electronic properties of single-layer tungsten disulfide on epitaxial graphene on silicon carbide. Nanoscale, 2017, 9, 16412-16419.	2.8	39
10	Optical Properties of Disulfide-Functionalized Diacetylene Self-Assembled Monolayers on Gold: a Spectroscopic Ellipsometry Study. Journal of Physical Chemistry C, 2009, 113, 20683-20688.	1.5	36
11	Flexible Tuning of Shape and Arrangement of Au Nanoparticles in 2-Dimensional Self-Organized Arrays: Morphology and Plasmonic Response. Journal of Physical Chemistry C, 2011, 115, 14036-14043.	1.5	35
12	Plasmonic Color-Graded Nanosystems with Achromatic Subwavelength Architectures for Light Filtering and Advanced SERS Detection. ACS Applied Materials & Interfaces, 2016, 8, 8024-8031.	4.0	35
13	Optical properties of cluster-assembled nanoporous gold films. Physical Review B, 2009, 80, .	1.1	32
14	Optical properties of Yeast Cytochrome c monolayer on gold: An in situ spectroscopic ellipsometry investigation. Journal of Colloid and Interface Science, 2011, 364, 125-132.	5.0	31
15	Tuning the magnetic anisotropy of ultrathin Fe ²⁺ /Ag(001) films from biaxial to uniaxial by ion sculpting. Applied Physics Letters, 2006, 89, 052507.	1.5	27
16	Oscillations of the Orbital Magnetic Moment due to d -Band Quantum Well States. Physical Review Letters, 2014, 113, 067203.	2.9	27
17	Plasmonics of Au nanoparticles in a hot thermodynamic bath. Nanoscale, 2019, 11, 1140-1146.	2.8	27
18	Ultrafast Optical Spin Injection into Image-Potential States of Cu(001). Physical Review Letters, 2007, 98, 226601.	2.9	23

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19	Resonant coherent three-photon photoemission from Cu(001). <i>Physical Review B</i> , 2009, 80, .	1.1	21
20	Local Optical Properties in CVD-Grown Monolayer WS ₂ Flakes. <i>Journal of Physical Chemistry C</i> , 2021, 125, 16059-16065.	1.5	21
21	Growth dynamics of L-cysteine SAMs on single-crystal gold surfaces: a metastable deexcitation spectroscopy study. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 264005.	0.7	20
22	Optical properties of nanogranular and highly porous TiO ₂ thin films. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 485301.	1.3	20
23	Surface Magnetism during Oxygen-Aided Fe Homoepitaxy. <i>Physical Review Letters</i> , 2005, 95, 127201.	2.9	19
24	Tuning the Magneto-optical Response of Iron Oxide Nanocrystals in Au- and Ag-Based Plasmonic Media. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 1955-1960.	4.0	19
25	Interband Transitions Are More Efficient Than Plasmonic Excitation in the Ultrafast Melting of Electromagnetically Coupled Au Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2019, 123, 16943-16950.	1.5	19
26	Thermometric Calibration of the Ultrafast Relaxation Dynamics in Plasmonic Au Nanoparticles. <i>ACS Photonics</i> , 2020, 7, 959-966.	3.2	19
27	Plasmonics of Au/Polymer Core/Shell Nanocomposites for Thermo-responsive Hybrid Metasurfaces. <i>ACS Applied Nano Materials</i> , 2020, 3, 1674-1682.	2.4	18
28	Temperature-dependent permittivity of silver and implications for thermoplasmonics. <i>Physical Review Materials</i> , 2019, 3, .	0.9	17
29	Electronic Structure of Core-Shell Metal/Oxide Aluminum Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015, 119, 26719-26725.	1.5	16
30	Oxygen adsorption on a Fe/MgO(1 0 0) film: a surface magnetism investigation. <i>Applied Surface Science</i> , 2001, 175-176, 797-801.	3.1	15
31	Correlation between magnetism and structure in ultrathin Fe ₃ Au(001) films. <i>Physical Review B</i> , 2005, 72, .	1.1	15
32	Magnetocrystalline anisotropy of monatomic steps in Fe ₃ Ag(001) nanopatterned films. <i>Physical Review B</i> , 2007, 75, .	1.1	14
33	From bilayer to trilayer Fe nanoislands on Cu ₃ Au(001). <i>Physical Review B</i> , 2002, 65, .	1.1	13
34	Interferometric Control of Spin-Polarized Electron Populations at a Metal Surface Observed by Multiphoton Photoemission. <i>Physical Review Letters</i> , 2008, 100, 206601.	2.9	13
35	Long-lived nonthermal electron distribution in aluminum excited by femtosecond extreme ultraviolet radiation. <i>Physical Review B</i> , 2017, 96, .	1.1	13
36	Magnetic decoupling of Fe coverage across atomic step of MoS ₂ flakes on SiO ₂ surface. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 415001.	1.3	13

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37	Solid-state dewetting of thin Au films studied with real-time, in situ spectroscopic ellipsometry. <i>Applied Surface Science</i> , 2017, 421, 651-655.	3.1	13
38	Kink contribution to the magnetic anisotropy of nanostructured ultrathin Co/Cu multilayers. <i>Physical Review B</i> , 2007, 76, .	1.1	12
39	Interaction of Alkanethiols with Nanoporous Cluster-Assembled Au Films. <i>Langmuir</i> , 2011, 27, 8371-8376.	1.6	12
40	Fast detection of water nanopockets underneath wet-transferred graphene. <i>Carbon</i> , 2017, 118, 208-214.	5.4	12
41	Yeast Cytochrome c adsorption on SiO_2/Si substrates studied by in situ spectroscopic ellipsometry. <i>Thin Solid Films</i> , 2013, 543, 78-82.	0.8	11
42	Broadband plasmonic response of self-organized aluminium nanowire arrays. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 184003.	1.3	11
43	Second harmonic generation study of the antiferromagnetic $\text{NiO}(001)$ surface. <i>Physical Review B</i> , 2008, 77, .	1.1	10
44	Polarization dependence and surface sensitivity of linear and nonlinear photoemission from $\text{Bi}/\text{Cu}(111)$. <i>Physical Review B</i> , 2012, 86, .	1.1	10
45	Optical dielectric function of two-dimensional WS_2 on epitaxial graphene. <i>2D Materials</i> , 2020, 7, 025024.	2.0	10
46	Disentangling the Temporal Dynamics of Nonthermal Electrons in Photoexcited Gold Nanostructures. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100017.	4.4	10
47	Surface magnetism of iron films following the adsorption of oxygen: a comparison between $\text{Fe}/\text{Ag}(100)$ and $\text{Fe}/\text{MgO}(100)$. <i>Surface Science</i> , 1999, 433-435, 676-679.	0.8	9
48	He^+ — interaction with soft matter surfaces: Ultra thin l-cysteine films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 256, 324-327.	0.6	8
49	Band structure effects in surface second harmonic generation: The case of $\text{Cu}(001)$. <i>Physical Review B</i> , 2009, 80, .	1.1	8
50	Band structure effects in above threshold photoemission. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 485002.	0.7	8
51	Spin-selective pathways in linear and nonlinear photoemission from ferromagnets. <i>Physical Review B</i> , 2012, 85, .	1.1	8
52	Reentrant Surface Anisotropy in the Antiferromagnetic/Ferromagnetic Bilayer Mn/Co . <i>Physical Review B</i> , 2019, 100, 080401.	2.9	8
53	Rippling of graphitic surfaces: a comparison between few-layer graphene and HOPG. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 13322-13330.	1.3	8
54	Interaction of Liquids with Nanoporous Cluster Assembled Au Films. <i>Journal of Physical Chemistry C</i> , 2010, 114, 17591-17596.	1.5	7

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55	A spin polarized He metastable beam investigation of the adsorption of L-cysteine on magnetic surfaces. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 932-935.	0.6	7
56	Transparent conductive oxide-based architectures for the electrical modulation of the optical response: A spectroscopic ellipsometry study. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2019, 37, 061209.	0.6	7
57	Thermal stability of monolayer WS ₂ in BEOL conditions. JPhys Materials, 2021, 4, 024002.	1.8	7
58	Quantitative Ultrafast Electron Temperature Dynamics in Photo-Excited Au Nanoparticles. Small, 2021, 17, e2100050.	5.2	7
59	Optical and electronic properties of transparent conducting Ta:TiO ₂ thin and ultra-thin films: the effect of doping and thickness. Materials Advances, 0, , .	2.6	7
60	Surfactant properties of oxygen in the homoepitaxial growth of Fe: a MDS study. Surface Science, 2001, 482-485, 850-853.	0.8	6
61	Yeast Cytochrome c Monolayer on Flat and Nanostructured Gold Films Studied by UV-Vis Spectroscopic Ellipsometry. BioNanoScience, 2011, 1, 210-217.	1.5	6
62	Plasmon dispersion in self-organized Au nanoparticle arrays. Physical Review B, 2012, 85, .	1.1	6
63	Monitoring antiferromagnetism via angle-resolved Auger photoelectron coincidence spectroscopy: The case of NiO/Ag(001). Physical Review B, 2013, 88, .	1.1	6
64	Controlling excitons in the quantum tunneling regime in a hybrid plasmonic/2D semiconductor interface. Applied Physics Reviews, 2022, 9, 031401.	5.5	6
65	Study of the growth and the magnetism of ultrathin films of Cr on Fe. Surface Science, 2000, 454-456, 875-879.	0.8	5
66	Surface magnetism during the early stages of oxygen-assisted growth of Cr on Fe(001): A SPMDS study. Nuclear Instruments & Methods in Physics Research B, 2002, 193, 480-484.	0.6	5
67	Tunable optical and plasmonic response of Au nanoparticles embedded in Ta-doped TiO ₂ transparent conducting films. Physical Review Materials, 2022, 6, .		
68	Temperature Driven Reversible Breakdown of Pseudomorphism in Ultrathin Fe/Cu ₃ Au Films. Physical Review Letters, 2004, 93, 106103.	2.9	4
69	Exchange bias in self-organized nanopatterned Cr/Fe junctions. Physical Review B, 2009, 79, .	1.1	4
70	Thermoplasmonics of Ag Nanoparticles in a Variable-Temperature Bath. Journal of Physical Chemistry C, 2020, 124, 17204-17210.	1.5	4
71	Unexpectedly Large Electron Correlation Measured in Auger Spectra of Ferromagnetic Iron Thin Films: Orbital-Selected Coulomb and Exchange Contributions. Physical Review Letters, 2020, 125, 067202.	2.9	4
72	Effective medium optical modelling of indium tin oxide nanocrystal films. Physical Chemistry Chemical Physics, 2022, 24, 5317-5322.	1.3	4

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73	Optical Response of CVD-Grown ML-WS ₂ Flakes on an Ultra-Dense Au NP Plasmonic Array. <i>Chemosensors</i> , 2022, 10, 120.	1.8	4
74	Thermal magnetic properties of Fe films on Cu ₃ Au investigated by magneto optical Kerr effect. <i>Applied Surface Science</i> , 2003, 212-213, 166-170.	3.1	3
75	Mg deposition on Ag(1 0 0): temperature evolution of the structural and electronic properties. <i>Applied Surface Science</i> , 2003, 212-213, 224-229.	3.1	3
76	Ion sculpting: A tool for tuning magnetic anisotropy in ultrathin films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 257, 359-364.	0.6	3
77	Exchange bias anisotropy versus antiferromagnet thickness in uniaxial Cr/Fe bilayers. <i>Physical Review B</i> , 2010, 81, .	1.1	3
78	Oxygen surfactant-assisted growth and dewetting of Co films on O-3Å ² /W(111). <i>Journal of Applied Physics</i> , 2013, 114, 203907.	1.1	3
79	Effects of surface oxidation on the exchange-bias properties of the single-crystal antiferromagnetic/ferromagnetic junction Mn/Co/Cu(001). <i>Physical Review B</i> , 2015, 91, .	1.1	3
80	Morphological modulation of graphene-mediated hybridization in plasmonic systems. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 27493-27499.	1.3	3
81	Doping-Dependent Optical Response of a Hybrid Transparent Conductive Oxide/Plasmonic Medium. <i>Journal of Physical Chemistry C</i> , 2022, 126, 1881-1889.	1.5	3
82	Correlation of site-selective oxygen adsorption with step-induced magnetic anisotropy in nanopatterned Fe films. <i>Physical Review B</i> , 2007, 75, .	1.1	2
83	Thermal stability and corrosion resistance of the magnetic anisotropy in ultrathin nanopatterned films. <i>Journal of Applied Physics</i> , 2008, 104, 033905.	1.1	2
84	Spin-polarized multi-photon photoemission and surface electronic structure of Cu(001). <i>New Journal of Physics</i> , 2010, 12, 083022.	1.2	2
85	Thickness and Beyond. Exploiting Spectroscopic Ellipsometry and Atomic Force Nanolithography for the Investigation of Ultrathin Interfaces of Biologic Interest. <i>Springer Series in Surface Sciences</i> , 2018, , 63-93.	0.3	2
86	Magnetic second harmonic study of Cr/Fe and Ag/Fe buried interfaces. <i>Surface Science</i> , 2002, 507-510, 530-534.	0.8	1
87	Electron correlation effects in the exchange coupling at the Fe/CoO/Ag(001) ferro-/antiferro-magnetic interface. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 529, 167872.	1.0	1
88	Plasmonics in Self-Organized Media. , 2015, , 1-17.		1
89	Composite Gold/Magnetite Plasmonic-Magnetic Media Based on Self-Organization. <i>Nanoscience and Nanotechnology Letters</i> , 2012, 4, 1087-1091.	0.4	1
90	Oxygen induced modifications in the growth of ultrathin iron films on Cu ₃ Au(). <i>Surface Science</i> , 2002, 507-510, 318-323.	0.8	0

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91	Onset of magnetic anisotropy in ion-sculpted ultrathin magnetic films. Nuclear Instruments & Methods in Physics Research B, 2007, 256, 419-422.	0.6	0
92	Beyond the visible limit: plasmonics at the UV (Conference Presentation). , 2016, , .		0
93	Monitoring the solid-state dewetting of densely packed arrays of Au nanoparticles. Journal of Physics: Conference Series, 2019, 1226, 012014.	0.3	0
94	Plasmonics in Self-Organized Media. , 2016, , 3303-3318.		0