

# Francesco Bisio

## List of Publications by Year in descending order

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94  
papers

1,585  
citations

361045

20  
h-index

344852

36  
g-index

95  
all docs

95  
docs citations

95  
times ranked

2341  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Tunable optical and plasmonic response of Au nanoparticles embedded in Ta-doped $\text{TiO}_2$ transparent conducting films. <i>Physical Review Materials</i> , 2022, 6, .	0.9	5
3	Effective medium optical modelling of indium tin oxide nanocrystal films. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 5317-5322.	1.3	4
4	Optical Response of CVD-Grown ML-WS <sub>2</sub> Flakes on an Ultra-Dense Au NP Plasmonic Array. <i>Chemosensors</i> , 2022, 10, 120.	1.8	4
5	Controlling excitons in the quantum tunneling regime in a hybrid plasmonic/2D semiconductor interface. <i>Applied Physics Reviews</i> , 2022, 9, 031401.	5.5	6
6	Thermal stability of monolayer WS <sub>2</sub> in BEOL conditions. <i>JPhys Materials</i> , 2021, 4, 024002.	1.8	7
7	Disentangling the Temporal Dynamics of Nonthermal Electrons in Photoexcited Gold Nanostructures. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100017.	4.4	10
8	Quantitative Ultrafast Electron Temperature Dynamics in Photoexcited Au Nanoparticles. <i>Small</i> , 2021, 17, e2100050.	5.2	7
9	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
10	Local Optical Properties in CVD-Grown Monolayer WS <sub>2</sub> Flakes. <i>Journal of Physical Chemistry C</i> , 2021, 125, 16059-16065.	1.5	21
11	Thermoplasmonics of Ag Nanoparticles in a Variable-Temperature Bath. <i>Journal of Physical Chemistry C</i> , 2020, 124, 17204-17210.	1.5	4
12	Unexpectedly Large Electron Correlation Measured in Auger Spectra of Ferromagnetic Iron Thin Films: Orbital-Selected Coulomb and Exchange Contributions. <i>Physical Review Letters</i> , 2020, 125, 067202.	2.9	4
13	Thermometric Calibration of the Ultrafast Relaxation Dynamics in Plasmonic Au Nanoparticles. <i>ACS Photonics</i> , 2020, 7, 959-966.	3.2	19
14	Optical dielectric function of two-dimensional WS <sub>2</sub> on epitaxial graphene. <i>2D Materials</i> , 2020, 7, 025024.	2.0	10
15	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
16	Transparent conductive oxide-based architectures for the electrical modulation of the optical response: A spectroscopic ellipsometry study. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2019, 37, 061209.	0.6	7
17	Plasmonics of Au nanoparticles in a hot thermodynamic bath. <i>Nanoscale</i> , 2019, 11, 1140-1146.	2.8	27
18	Monitoring the solid-state dewetting of densely packed arrays of Au nanoparticles. <i>Journal of Physics: Conference Series</i> , 2019, 1226, 012014.	0.3	0

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19	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
20	Temperature-dependent permittivity of silver and implications for thermoplasmonics. <i>Physical Review Materials</i> , 2019, 3, .	0.9	17
21	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
22	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
23	Fast detection of water nanopockets underneath wet-transferred graphene. <i>Carbon</i> , 2017, 118, 208-214.	5.4	12
24	Electronic properties of single-layer tungsten disulfide on epitaxial graphene on silicon carbide. <i>Nanoscale</i> , 2017, 9, 16412-16419.	2.8	39
25	Long-lived nonthermal electron distribution in aluminum excited by femtosecond extreme ultraviolet radiation. <i>Physical Review B</i> , 2017, 96, .	1.1	13
26	Magnetic decoupling of Fe coverage across atomic step of MoS <sub>2</sub> flakes on SiO <sub>2</sub> surface. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 415001.	1.3	13
27	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
28	Beyond the visible limit: plasmonics at the UV (Conference Presentation). , 2016, , .		0
29	Morphological modulation of graphene-mediated hybridization in plasmonic systems. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 27493-27499.	1.3	3
30	Plasmonic Color-Graded Nanosystems with Achromatic Subwavelength Architectures for Light Filtering and Advanced SERS Detection. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 8024-8031.	4.0	35
31	Plasmonics in Self-Organized Media. , 2016, , 3303-3318.		0
32	Electronic Structure of Core-Shell Metal/Oxide Aluminum Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015, 119, 26719-26725.	1.5	16
33	Rapid CVD growth of millimetre-sized single crystal graphene using a cold-wall reactor. <i>2D Materials</i> , 2015, 2, 014006.	2.0	143
34	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
35	Broadband plasmonic response of self-organized aluminium nanowire arrays. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 184003.	1.3	11
36	Plasmonics in Self-Organized Media. , 2015, , 1-17.		1

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37	Optical properties of nanogranular and highly porous TiO <sub>2</sub> thin films. Journal Physics D: Applied Physics, 2014, 47, 485301.	1.3	20
38	Reentrant Surface Anisotropy in the Antiferromagnetic/Ferromagnetic Bilayer $\text{Mn} \times \text{Co}$	2.9	8
39	Pushing the High-Energy Limit of Plasmonics. ACS Nano, 2014, 8, 9239-9247.	7.3	57
40	Oscillations of the Orbital Magnetic Moment due to $d$ -Band Quantum Well States. Physical Review Letters, 2014, 113, 067203.	2.9	27
41	Monitoring antiferromagnetism via angle-resolved Auger photoelectron coincidence spectroscopy: The case of NiO/Ag(001). Physical Review B, 2013, 88, .	1.1	6
42	Yeast Cytochrome c adsorption on SiO <sub>2</sub> /Si substrates studied by in situ spectroscopic ellipsometry. Thin Solid Films, 2013, 543, 78-82.	0.8	11
43	Tuning the Magneto-optical Response of Iron Oxide Nanocrystals in Au- and Ag-Based Plasmonic Media. ACS Applied Materials & Interfaces, 2013, 5, 1955-1960.	4.0	19
44	Deep Ultraviolet Plasmon Resonance in Aluminum Nanoparticle Arrays. ACS Nano, 2013, 7, 5834-5841.	7.3	170
45	Oxygen surfactant-assisted growth and dewetting of Co films on O-3Å/W(111). Journal of Applied Physics, 2013, 114, 203907.	1.1	3
46	Modulation of resistance switching in Au/Nb:SrTiO <sub>3</sub> Schottky junctions by ambient oxygen. Applied Physics Letters, 2012, 101, 243505.	1.5	40
47	Polarization dependence and surface sensitivity of linear and nonlinear photoemission from Bi/Cu(111). Physical Review B, 2012, 86, .	1.1	10
48	Spin-selective pathways in linear and nonlinear photoemission from ferromagnets. Physical Review B, 2012, 85, .	1.1	8
49	Plasmon dispersion in self-organized Au nanoparticle arrays. Physical Review B, 2012, 85, .	1.1	6
50	Composite Gold/Magnetite Plasmonic-Magnetic Media Based on Self-Organization. Nanoscience and Nanotechnology Letters, 2012, 4, 1087-1091.	0.4	1
51	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
52	Interaction of Alkanethiols with Nanoporous Cluster-Assembled Au Films. Langmuir, 2011, 27, 8371-8376.	1.6	12
53	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
54	Yeast Cytochrome c Monolayer on Flat and Nanostructured Gold Films Studied by UV-Vis Spectroscopic Ellipsometry. BioNanoScience, 2011, 1, 210-217.	1.5	6

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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	Band structure effects in above threshold photoemission. Journal of Physics Condensed Matter, 2011, 23, 485002.	0.7	8
57	Exchange bias anisotropy versus antiferromagnet thickness in uniaxial Cr/Fe bilayers. Physical Review B, 2010, 81, .	1.1	3
58	Spin-polarized multi-photon photoemission and surface electronic structure of Cu(001). New Journal of Physics, 2010, 12, 083022.	1.2	2
59	Interaction of Liquids with Nanoporous Cluster Assembled Au Films. Journal of Physical Chemistry C, 2010, 114, 17591-17596.	1.5	7
60	Band structure effects in surface second harmonic generation: The case of Cu(001). Physical Review B, 2009, 80, .	1.1	8
61	Exchange bias in self-organized nanopatterned Cr/Fe junctions. Physical Review B, 2009, 79, .	1.1	4
62	Resonant coherent three-photon photoemission from Cu(001). Physical Review B, 2009, 80, .	1.1	21
63	Optical properties of cluster-assembled nanoporous gold films. Physical Review B, 2009, 80, .	1.1	32
64	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
65	Growth dynamics of L-cysteine SAMs on single-crystal gold surfaces: a metastable deexcitation spectroscopy study. Journal of Physics Condensed Matter, 2009, 21, 264005.	0.7	20
66	Optical Characterization of Thiolate Self-Assembled Monolayers on Au(111). Journal of Physical Chemistry C, 2008, 112, 3899-3906.	1.5	70
67	Interferometric Control of Spin-Polarized Electron Populations at a Metal Surface Observed by Multiphoton Photoemission. Physical Review Letters, 2008, 100, 206601.	2.9	13
68	Second harmonic generation study of the antiferromagnetic NiO(001) surface. Physical Review B, 2008, 77, .	1.1	10
69	Thermal stability and corrosion resistance of the magnetic anisotropy in ultrathin nanopatterned films. Journal of Applied Physics, 2008, 104, 033905.	1.1	2
70	Magnetocrystalline anisotropy of monatomic steps in Fe <sup>2+</sup> /Ag(001) nanopatterned films. Physical Review B, 2007, 75, .	1.1	14
71	Kink contribution to the magnetic anisotropy of nanostructured ultrathin $\text{Co/Cu} \hat{\alpha}^* \text{Cu(001)}$ films. Physical Review B, 2007, 76, .	1.1	12
72	Correlation of site-selective oxygen adsorption with step-induced magnetic anisotropy in nanopatterned Fe films. Physical Review B, 2007, 75, .	1.1	2

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73	Ultrafast Optical Spin Injection into Image-Potential States of Cu(001). <i>Physical Review Letters</i> , 2007, 98, 226601.	2.9	23
74	He <sup>+</sup> — interaction with soft matter surfaces: Ultra thin l-cysteine films. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2007, 256, 324-327.	0.6	8
75	Onset of magnetic anisotropy in ion-sculpted ultrathin magnetic films. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2007, 256, 419-422.	0.6	0
76	Ion sculpting: A tool for tuning magnetic anisotropy in ultrathin films. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2007, 257, 359-364.	0.6	3
77	Tuning the magnetic anisotropy of ultrathin Fe <sup>+</sup> •Ag(001) films from biaxial to uniaxial by ion sculpting. <i>Applied Physics Letters</i> , 2006, 89, 052507.	1.5	27
78	Mechanisms of High-Order Perturbative Photoemission from Cu(001). <i>Physical Review Letters</i> , 2006, 96, 087601.	2.9	63
79	Isolating the Step Contribution to the Uniaxial Magnetic Anisotropy in Nanostructured Fe/Ag(001) Films. <i>Physical Review Letters</i> , 2006, 96, 057204.	2.9	69
80	Correlation between magnetism and structure in ultrathin Fe <sup>+</sup> •Cu <sub>3</sub> Au(001) films. <i>Physical Review B</i> , 2005, 72, .	1.1	15
81	Surface Magnetism during Oxygen-Aided Fe Homoepitaxy. <i>Physical Review Letters</i> , 2005, 95, 127201.	2.9	19
82	Temperature Driven Reversible Breakdown of Pseudomorphism in Ultrathin Fe/Cu <sub>3</sub> Au Films. <i>Physical Review Letters</i> , 2004, 93, 106103.	2.9	4
83	Thermal magnetic properties of Fe films on Cu <sub>3</sub> Au investigated by magneto optical Kerr effect. <i>Applied Surface Science</i> , 2003, 212-213, 166-170.	3.1	3
84	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
85	From bilayer to trilayer Fe nanoislands on Cu <sub>3</sub> Au(001). <i>Physical Review B</i> , 2002, 65, .	1.1	13
86	Oxygen induced modifications in the growth of ultrathin iron films on Cu <sub>3</sub> Au(). <i>Surface Science</i> , 2002, 507-510, 318-323.	0.8	0
87	Magnetic second harmonic study of Cr/Fe and Ag/Fe buried interfaces. <i>Surface Science</i> , 2002, 507-510, 530-534.	0.8	1
88	Surface magnetism during the early stages of oxygen-assisted growth of Cr on Fe(001): A SPMDS study. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2002, 193, 480-484.	0.6	5
89	Surfactant properties of oxygen in the homoepitaxial growth of Fe: a MDS study. <i>Surface Science</i> , 2001, 482-485, 850-853.	0.8	6
90	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

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91	Study of the growth and the magnetism of ultrathin films of Cr on Fe. Surface Science, 2000, 454-456, 875-879.	0.8	5
92	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
93	Surface magnetism of iron films following the adsorption of oxygen: a comparison between Fe/Ag(100) and Fe/MgO(100). Surface Science, 1999, 433-435, 676-679.	0.8	9
94	Optical and electronic properties of transparent conducting Ta:TiO <sub>2</sub> thin and ultra-thin films: the effect of doping and thickness. Materials Advances, 0, , .	2.6	7