# Francesco Bisio

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8031562/publications.pdf

Version: 2024-02-01

| | | | |
|---|---|---|---|
| 94 papers | 1,585 citations | 361413 20 h-index | 345221 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. Journal of Physical Chemistry C, 2022, 126, 1881-1889. | 3.1 | 3 |
| 2 | Tunable optical and plasmonic response of Au nanoparticles embedded in Ta-doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>TiO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml transparent conducting films. Physical Review Materials, 2022, 6, . | 2.4 | 3 |
| 3 | Effective medium optical modelling of indium tin oxide nanocrystal films. Physical Chemistry Chemical Physics, 2022, 24, 5317-5322. | 2.8 | 4 |
| 4 | Optical Response of CVD-Grown ML-WS2 Flakes on an Ultra-Dense Au NP Plasmonic Array. Chemosensors, 2022, 10, 120. | 3.6 | 4 |
| 5 | Controlling excitons in the quantum tunneling regime in a hybrid plasmonic/2D semiconductor interface. Applied Physics Reviews, 2022, 9, 031401. | 11.3 | 6 |
| 6 | Thermal stability of monolayer WS<sub>2</sub> in BEOL conditions. JPhys Materials, 2021, 4, 024002. | 4.2 | 7 |
| 7 | Disentangling the Temporal Dynamics of Nonthermal Electrons in Photoexcited Gold Nanostructures. Laser and Photonics Reviews, 2021, 15, 2100017. | 8.7 | 10 |
| 8 | Quantitative Ultrafast Electronâ€Temperature Dynamics in Photoâ€Excited Au Nanoparticles. Small, 2021, 17, e2100050. | 10.0 | 7 |
| 9 | Electron correlation effects in the exchange coupling at the Fe/CoO/Ag(001) ferro-/antiferro-magnetic interface. Journal of Magnetism and Magnetic Materials, 2021, 529, 167872. | 2.3 | 1 |
| 10 | Local Optical Properties in CVD-Grown Monolayer WS<sub>2</sub> Flakes. Journal of Physical Chemistry C, 2021, 125, 16059-16065. | 3.1 | 21 |
| 11 | Thermoplasmonics of Ag Nanoparticles in a Variable-Temperature Bath. Journal of Physical Chemistry C, 2020, 124, 17204-17210. | 3.1 | 4 |
| 12 | 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. | 7.8 | 4 |
| 13 | Thermometric Calibration of the Ultrafast Relaxation Dynamics in Plasmonic Au Nanoparticles. ACS Photonics, 2020, 7, 959-966. | 6.6 | 19 |
| 14 | Optical dielectric function of two-dimensional WS2 on epitaxial graphene. 2D Materials, 2020, 7, 025024. | 4.4 | 10 |
| 15 | Plasmonics of Au/Polymer Core/Shell Nanocomposites for Thermoresponsive Hybrid Metasurfaces. ACS Applied Nano Materials, 2020, 3, 1674-1682. | 5.0 | 18 |
| 16 | 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. | 1.2 | 7 |
| 17 | Plasmonics of Au nanoparticles in a hot thermodynamic bath. Nanoscale, 2019, 11, 1140-1146. | 5.6 | 27 |
| 18 | Monitoring the solid-state dewetting of densely packed arrays of Au nanoparticles. Journal of Physics: Conference Series, 2019, 1226, 012014. | 0.4 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Interband Transitions Are More Efficient Than Plasmonic Excitation in the Ultrafast Melting of Electromagnetically Coupled Au Nanoparticles. Journal of Physical Chemistry C, 2019, 123, 16943-16950. | 3.1 | 19 |
| 20 | Temperature-dependent permittivity of silver and implications for thermoplasmonics. Physical Review Materials, 2019, 3, . | 2.4 | 17 |
| 21 | Rippling of graphitic surfaces: a comparison between few-layer graphene and HOPG. Physical Chemistry Chemical Physics, 2018, 20, 13322-13330. | 2.8 | 8 |
| 22 | Thickness and Beyond. Exploiting Spectroscopic Ellipsometry and Atomic Force Nanolithography for the Investigation of Ultrathin Interfaces of Biologic Interest. Springer Series in Surface Sciences, 2018, , 63-93. | 0.3 | 2 |
| 23 | Fast detection of water nanopockets underneath wet-transferred graphene. Carbon, 2017, 118, 208-214. | 10.3 | 12 |
| 24 | Electronic properties of single-layer tungsten disulfide on epitaxial graphene on silicon carbide. Nanoscale, 2017, 9, 16412-16419. | 5.6 | 39 |
| 25 | Long-lived nonthermal electron distribution in aluminum excited by femtosecond extreme ultraviolet radiation. Physical Review B, 2017, 96, . | 3.2 | 13 |
| 26 | Magnetic decoupling of Fe coverage across atomic step of MoS<sub>2</sub> flakes on SiO<sub>2</sub> surface. Journal Physics D: Applied Physics, 2017, 50, 415001. | 2.8 | 13 |
| 27 | Solid-state dewetting of thin Au films studied with real-time, in situ spectroscopic ellipsometry. Applied Surface Science, 2017, 421, 651-655. | 6.1 | 13 |
| 28 | Beyond the visible limit: plasmonics at the UV (Conference Presentation). , 2016, , . | | 0 |
| 29 | Morphological modulation of graphene-mediated hybridization in plasmonic systems. Physical Chemistry Chemical Physics, 2016, 18, 27493-27499. | 2.8 | 3 |
| 30 | Plasmonic Color-Graded Nanosystems with Achromatic Subwavelength Architectures for Light Filtering and Advanced SERS Detection. ACS Applied Materials & Interfaces, 2016, 8, 8024-8031. | 8.0 | 35 |
| 31 | Plasmonics in Self-Organized Media. , 2016, , 3303-3318. | | 0 |
| 32 | Electronic Structure of Coreâ€“Shell Metal/Oxide Aluminum Nanoparticles. Journal of Physical Chemistry C, 2015, 119, 26719-26725. | 3.1 | 16 |
| 33 | Rapid CVD growth of millimetre-sized single crystal graphene using a cold-wall reactor. 2D Materials, 2015, 2, 014006. | 4.4 | 143 |
| 34 | Effects of surface oxidation on the exchange-bias properties of the single-crystal antiferromagnetic/ferromagnetic junction Mn/Co/Cu(001). Physical Review B, 2015, 91, . | 3.2 | 3 |
| 35 | Broadband plasmonic response of self-organized aluminium nanowire arrays. Journal Physics D: Applied Physics, 2015, 48, 184003. | 2.8 | 11 |
| 36 | Plasmonics in Self-Organized Media. , 2015, , 1-17. | | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Optical properties of nanogranular and highly porous TiO<sub>2</sub>thin films. Journal Physics D: Applied Physics, 2014, 47, 485301. | 2.8 | 20 |
| 38 | Reentrant Surface Anisotropy in the Antiferromagnetic/Ferromagnetic Bilayer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Mn</mml:mi><mml:mo>/</mml:mo><mml:mi>Co</mml:mi><mml:mo>/</mml:mo><mml:mi>Cu</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>001</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 687 Td (stretchy="false")</mml | 7.8 | 8 |
| 39 | Pushing the High-Energy Limit of Plasmonics. ACS Nano, 2014, 8, 9239-9247. | 14.6 | 57 |
| 40 | Oscillations of the Orbital Magnetic Moment due to<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>d</mml:mi></mml:math>-Band Quantum Well States. Physical Review Letters, 2014, 113, 067203. | 7.8 | 27 |
| 41 | Monitoring antiferromagnetism via angle-resolved Auger photoelectron coincidence spectroscopy: The case of NiO/Ag(001). Physical Review B, 2013, 88, . | 3.2 | 6 |
| 42 | Yeast Cytochrome c adsorption on SiO2/Si substrates studied by in situ spectroscopic ellipsometry. Thin Solid Films, 2013, 543, 78-82. | 1.8 | 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. | 8.0 | 19 |
| 44 | Deep Ultraviolet Plasmon Resonance in Aluminum Nanoparticle Arrays. ACS Nano, 2013, 7, 5834-5841. | 14.6 | 170 |
| 45 | Oxygen surfactant-assisted growth and dewetting of Co films on O-3â€‰Ã—â€‰3/W(111). Journal of Applied Physics, 2013, 114, 203907. | 2.5 | 3 |
| 46 | Modulation of resistance switching in Au/Nb:SrTiO3 Schottky junctions by ambient oxygen. Applied Physics Letters, 2012, 101, 243505. | 3.3 | 40 |
| 47 | Polarization dependence and surface sensitivity of linear and nonlinear photoemission from Bi/Cu(111). Physical Review B, 2012, 86, . | 3.2 | 10 |
| 48 | Spin-selective pathways in linear and nonlinear photoemission from ferromagnets. Physical Review B, 2012, 85, . | 3.2 | 8 |
| 49 | Plasmon dispersion in self-organized Au nanoparticle arrays. Physical Review B, 2012, 85, . | 3.2 | 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. | 3.1 | 35 |
| 52 | Interaction of Alkanethiols with Nanoporous Cluster-Assembled Au Films. Langmuir, 2011, 27, 8371-8376. | 3.5 | 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. | 9.4 | 31 |
| 54 | Yeast Cytochrome c Monolayer on Flat and Nanostructured Gold Films Studied by UVâ€“Vis Spectroscopic Ellipsometry. BioNanoScience, 2011, 1, 210-217. | 3.5 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 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. | 1.4 | 7 |
| 56 | Band structure effects in above threshold photoemission. Journal of Physics Condensed Matter, 2011, 23, 485002. | 1.8 | 8 |
| 57 | Exchange bias anisotropy versus antiferromagnet thickness in uniaxial Cr/Fe bilayers. Physical Review B, 2010, 81, . | 3.2 | 3 |
| 58 | Spin-polarized multi-photon photoemission and surface electronic structure of Cu(001). New Journal of Physics, 2010, 12, 083022. | 2.9 | 2 |
| 59 | Interaction of Liquids with Nanoporous Cluster Assembled Au Films. Journal of Physical Chemistry C, 2010, 114, 17591-17596. | 3.1 | 7 |
| 60 | Band structure effects in surface second harmonic generation: The case of Cu(001). Physical Review B, 2009, 80, . | 3.2 | 8 |
| 61 | Exchange bias in self-organized nanopatterned Cr/Fe junctions. Physical Review B, 2009, 79, . | 3.2 | 4 |
| 62 | Resonant coherent three-photon photoemission from Cu(001). Physical Review B, 2009, 80, . | 3.2 | 21 |
| 63 | Optical properties of cluster-assembled nanoporous gold films. Physical Review B, 2009, 80, . | 3.2 | 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. | 3.1 | 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. | 1.8 | 20 |
| 66 | Optical Characterization of Thiolate Self-Assembled Monolayers on Au(111). Journal of Physical Chemistry C, 2008, 112, 3899-3906. | 3.1 | 70 |
| 67 | Interferometric Control of Spin-Polarized Electron Populations at a Metal Surface Observed by Multiphoton Photoemission. Physical Review Letters, 2008, 100, 206601. | 7.8 | 13 |
| 68 | Second harmonic generation study of the antiferromagnetic NiO(001) surface. Physical Review B, 2008, 77, . | 3.2 | 10 |
| 69 | Thermal stability and corrosion resistance of the magnetic anisotropy in ultrathin nanopatterned films. Journal of Applied Physics, 2008, 104, 033905. | 2.5 | 2 |
| 70 | Magnetocrystalline anisotropy of monatomic steps inFeâˆ•Ag(001)nanopatterned films. Physical Review B, 2007, 75, . | 3.2 | 14 |
| 71 | Kink contribution to the magnetic anisotropy of nanostructured ultrathin<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Co</mml:mi><mml:mo>â^•</mml:mo><mml:mi mathvariant="normal">Cu</mml:mi><mml:mrow><mml:mo>(</mml:mo><mml:mn>001</mml:mn><mml:mo>)</mml:mo></mml:mrow><mml:mi xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Fe</mml:mi><mml:mo>â^•</mml:mo><mml:mi mathva. Physical Review B, 2007, 76, . | 3.2 | 12 |
| 72 | Correlation of site-selective oxygen adsorption with step-induced magnetic anisotropy in nanopatterned Fe films. Physical Review B, 2007, 75, . | 3.2 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Ultrafast Optical Spin Injection into Image-Potential States of Cu(001). Physical Review Letters, 2007, 98, 226601. | 7.8 | 23 |
| 74 | Heâ^— interaction with soft matter surfaces: Ultra thin l-cysteine films. Nuclear Instruments & Methods in Physics Research B, 2007, 256, 324-327. | 1.4 | 8 |
| 75 | Onset of magnetic anisotropy in ion-sculpted ultrathin magnetic films. Nuclear Instruments & Methods in Physics Research B, 2007, 256, 419-422. | 1.4 | 0 |
| 76 | Ion sculpting: A tool for tuning magnetic anisotropy in ultrathin films. Nuclear Instruments & Methods in Physics Research B, 2007, 257, 359-364. | 1.4 | 3 |
| 77 | Tuning the magnetic anisotropy of ultrathin Feâ^•Ag(001) films from biaxial to uniaxial by ion sculpting. Applied Physics Letters, 2006, 89, 052507. | 3.3 | 27 |
| 78 | Mechanisms of High-Order Perturbative Photoemission from Cu(001). Physical Review Letters, 2006, 96, 087601. | 7.8 | 63 |
| 79 | Isolating the Step Contribution to the Uniaxial Magnetic Anisotropy in NanostructuredFe/Ag(001)Films. Physical Review Letters, 2006, 96, 057204. | 7.8 | 69 |
| 80 | Correlation between magnetism and structure in ultrathinFeâ^•Cu3Au(001)films. Physical Review B, 2005, 72, . | 3.2 | 15 |
| 81 | Surface Magnetism during Oxygen-Aided Fe Homoepitaxy. Physical Review Letters, 2005, 95, 127201. | 7.8 | 19 |
| 82 | Temperature Driven Reversible Breakdown of Pseudomorphism in UltrathinFe/Cu3AuFilms. Physical Review Letters, 2004, 93, 106103. | 7.8 | 4 |
| 83 | Thermal magnetic properties of Fe films on Cu3Au investigated by magneto optical Kerr effect. Applied Surface Science, 2003, 212-213, 166-170. | 6.1 | 3 |
| 84 | Mg deposition on Ag(1 0 0): temperature evolution of the structural and electronic properties. Applied Surface Science, 2003, 212-213, 224-229. | 6.1 | 3 |
| 85 | From bilayer to trilayer Fe nanoislands onCu3Au(001). Physical Review B, 2002, 65, . | 3.2 | 13 |
| 86 | Oxygen induced modifications in the growth of ultrathin iron films on Cu3Au(). Surface Science, 2002, 507-510, 318-323. | 1.9 | 0 |
| 87 | Magnetic second harmonic study of Cr/Fe and Ag/Fe buried interfaces. Surface Science, 2002, 507-510, 530-534. | 1.9 | 1 |
| 88 | 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. | 1.4 | 5 |
| 89 | Surfactant properties of oxygen in the homoepitaxial growth of Fe: a MDS study. Surface Science, 2001, 482-485, 850-853. | 1.9 | 6 |
| 90 | Oxygen adsorption on a Fe/MgO(1 0 0) film: a surface magnetism investigation. Applied Surface Science, 2001, 175-176, 797-801. | 6.1 | 15 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Study of the growth and the magnetism of ultrathin films of Cr on Fe. Surface Science, 2000, 454-456, 875-879. | 1.9 | 5 |
| 92 | Structural versus Magnetic Properties at the Surface of Fe Films during Oxygen-Assisted Homoepitaxial Growth. Physical Review Letters, 1999, 83, 4868-4871. | 7.8 | 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. | 1.9 | 9 |
| 94 | Optical and electronic properties of transparent conducting Ta:TiO2 thin and ultra-thin films: the effect of doping and thickness. Materials Advances, 0, , . | 5.4 | 7 |