

# Francesco Borgatti

## List of Publications by Year in descending order

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91  
papers

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201385

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197535

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docs citations

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times ranked

4515  
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxygen-Driven Metal-Insulator Transition in SrNbO <sub>3</sub> Thin Films Probed by Infrared Spectroscopy. <i>Advanced Electronic Materials</i> , 2022, 8, .	2.6	6
2	Evidence of Robust Half-Metallicity in Strained Manganite Films. <i>Journal of Physical Chemistry C</i> , 2021, 125, 14430-14437.	1.5	5
3	Identification of hidden orbital contributions in the $\text{La}_{1-x}\text{Mn}_{0.65}\text{O}_3$ valence band. <i>Physical Review Materials</i> , 2021, 5, .	0.9	2
4	X-Ray-Induced Modification of the Photophysical Properties of MAPbBr <sub>3</sub> Single Crystals. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 58301-58308.	4.0	15
5	Morphological Transitions in Organic Ultrathin Film Growth Imaged by In Situ Step-by-Step Atomic Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2020, 124, 14030-14042.	1.5	11
6	Magnetic Depth Profiling of the Co/C60 Interface Through Soft X-Ray Resonant Magnetic Reflectivity. <i>IEEE Transactions on Magnetics</i> , 2020, 56, 1-6.	1.2	1
7	Doping Evolution of the Local Electronic and Structural Properties of the Double Perovskite Ba <sub>2</sub> Na <sub>1-x</sub> Ca <sub>x</sub> OsO <sub>6</sub> . <i>Journal of Physical Chemistry C</i> , 2020, 124, 16577-16585.	1.5	9
8	Direct insight into the band structure of SrNbO <sub>3</sub> . <i>Physical Review Materials</i> , 2020, 4, .	1.7	17
9	Transient quantum isolation and critical behavior in the magnetization dynamics of half-metallic manganites. <i>Physical Review B</i> , 2019, 100, .	1.1	10
10	Spectroscopic elucidation of ionic motion processes in tunnel oxide-based memristive devices. <i>Faraday Discussions</i> , 2019, 213, 215-230.	1.6	13
11	Resonant Inelastic Soft X-ray Scattering Study of Co-Doped Maghemite Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 4980-4986.	0.9	0
12	Opposite Surface and Bulk Solvatochromic Effects in a Molecular Spin-Crossover Compound Revealed by Ambient Pressure X-ray Absorption Spectroscopy. <i>Langmuir</i> , 2018, 34, 3604-3609.	1.6	9
13	Revisiting the origin of satellites in core-level photoemission of transparent conducting oxides: The case of n-doped $\text{SnO}_2$ . <i>Physical Review B</i> , 2018, 97, .	1.1	30
14	Low intrinsic carrier density LSMO/Alq <sub>3</sub> /AlO <sub>x</sub> /Co organic spintronic devices. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	10
15	Oxygen Impurities Link Bistability and Magnetoresistance in Organic Spin Valves. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 8132-8140.	4.0	20
16	Charge-transfer in B-site-depleted NdGaO <sub>3</sub> /SrTiO <sub>3</sub> heterostructures. <i>APL Materials</i> , 2018, 6, 076104.	2.2	4
17	Buried Interfaces Effects in Ionic Conductive LaF <sub>3</sub> -SrF <sub>2</sub> Multilayers. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600875.	1.9	3
18	Photoluminescence as a probe of molecular organization in PDI8-CN <sub>2</sub> ultra-thin films. <i>Journal of Luminescence</i> , 2017, 187, 403-409.	1.5	6

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19	Role of Oxygen Deposition Pressure in the Formation of Ti Defect States in TiO <sub>2</sub> (001) Anatase Thin Films. ACS Applied Materials & Interfaces, 2017, 9, 23099-23106.	4.0	25
20	Spectroscopic Indications of Tunnel Barrier Charging as the Switching Mechanism in Memristive Devices. Advanced Functional Materials, 2017, 27, 1702282.	7.8	29
21	Quantifying the critical thickness of electron hybridization in spintronics materials. Nature Communications, 2017, 8, 16051.	5.8	26
22	Identification of metal s states in Sn-doped anatase by polarisation dependent hard X-ray photoelectron spectroscopy. Chemical Physics Letters, 2016, 647, 59-63.	1.2	7
23	Surface induces different crystal structures in a room temperature switchable spin crossover compound. Dalton Transactions, 2016, 45, 134-143.	1.6	19
24	Role and Optimization of the Active Oxide Layer in TiO <sub>2</sub> -Based RRAM. Advanced Functional Materials, 2016, 26, 507-513.	7.8	49
25	Hard X-ray PhotoElectron Spectroscopy of transition metal oxides: Bulk compounds and device-ready metal-oxide interfaces. Journal of Electron Spectroscopy and Related Phenomena, 2016, 208, 95-99.	0.8	4
26	Iron 1s X-ray photoemission of Fe <sub>2</sub> O <sub>3</sub> . Journal of Electron Spectroscopy and Related Phenomena, 2015, 203, 8-13.	0.8	22
27	Chemical, electronic, and magnetic structure of LaFeCoSi alloy: Surface and bulk properties. Journal of Applied Physics, 2014, 115, 203901.	1.1	3
28	Chemical states and ferromagnetism in heavily Mn-substituted zinc oxide thin films. Journal of Applied Physics, 2014, 115, .	1.1	12
29	Spectroscopic Proof of the Correlation between Redox State and Charge Carrier Transport at the Interface of Resistively Switching Ti/PCMO Devices. Advanced Materials, 2014, 26, 2730-2735.	11.1	88
30	Observation of Distinct Bulk and Surface Chemical Environments in a Topological Insulator under Magnetic Doping. Journal of Physical Chemistry C, 2014, 118, 12333-12339.	1.5	33
31	Understanding the Electronic Structure of IrO <sub>2</sub> by Hard-X-ray Photoelectron Spectroscopy and Density-Functional Theory. Physical Review Letters, 2014, 112, 117601.	11.1	107
32	A Combined Ion Scattering, Photoemission, and DFT Investigation on the Termination Layer of a La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> Spin Injecting Electrode. Journal of Physical Chemistry C, 2014, 118, 13631-13637.	1.5	23
33	Interfacial and bulk electronic properties of complex oxides and buried interfaces probed by HAXPES. Journal of Electron Spectroscopy and Related Phenomena, 2013, 190, 228-234.	0.8	8
34	Hydrophilic self-assembly monolayers for pentacene-based thin-film transistors. Organic Electronics, 2013, 14, 1891-1897.	1.4	10
35	Conditions for the growth of smooth La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> thin films by pulsed electron ablation. Thin Solid Films, 2013, 534, 83-89.	0.8	28
36	A Single-Device Universal Logic Gate Based on a Magnetically Enhanced Memristor. Advanced Materials, 2013, 25, 534-538.	11.1	95

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37	Chemical insight into electroforming of resistive switching manganite heterostructures. <i>Nanoscale</i> , 2013, 5, 3954.	2.8	44
38	Surface X-ray diffraction analysis of Fe nanostructured films grown on c(2 $\sqrt{2}$ -2)-N/Cu(100). <i>Surface Science</i> , 2012, 606, 813-819.	0.8	3
39	Electronic properties of embedded MnAs nano-clusters in a GaAs matrix and (Ga,Mn)As films: Evidence of distinct metallic character. <i>Applied Physics Letters</i> , 2012, 100, 203121.	1.5	7
40	Organic field-effect transistors as new paradigm for large-area molecular junctions. <i>Organic Electronics</i> , 2012, 13, 789-795.	1.4	19
41	Morphological and mechanical properties of alkanethiol self-assembled monolayers investigated via bimodal atomic force microscopy. <i>Chemical Communications</i> , 2011, 47, 8823.	2.2	23
42	Magnetic Proximity Effect as a Pathway to Spintronic Applications of Topological Insulators. <i>Nano Letters</i> , 2011, 11, 4079-4082.	4.5	194
43	Identification of Different Electron Screening Behavior Between the Bulk and Surface of (Ga,Mn)As. <i>Physical Review Letters</i> , 2011, 107, 187203.	2.9	24
44	A high-vacuum deposition system for in situ and real-time electrical characterization of organic thin-film transistors. <i>Review of Scientific Instruments</i> , 2011, 82, 025110.	0.6	11
45	Monitoring the crystallization process of nano-confined organic molecules by synchrotron X-ray diffraction. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2010, 268, 411-413.	0.6	1
46	Understanding the role of tunneling barriers in organic spin valves by hard x-ray photoelectron spectroscopy. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	41
47	Identifying the character of ferromagnetic Mn in epitaxial Fe/(Ga,Mn)As heterostructures. <i>Physical Review B</i> , 2010, 81, .	1.1	22
48	Multiscale Morphology of Organic Semiconductor Thin Films Controls the Adhesion and Viability of Human Neural Cells. <i>Biophysical Journal</i> , 2010, 98, 2804-2812.	0.2	50
49	Layered Distribution of Charge Carriers in Organic Thin Film Transistors. <i>Physical Review Letters</i> , 2010, 104, 246602.	2.9	130
50	Additive nanoscale embedding of functional nanoparticles on silicon surface. <i>Nanoscale</i> , 2010, 2, 2069.	2.8	27
51	The four polymorphic modifications of the semiconductor dibenzo-tetrathiafulvalene. <i>CrystEngComm</i> , 2008, 10, 1899.	1.3	62
52	Structure, morphology, and growth dynamics of perfluoro $\epsilon$ -pentacene thin films. <i>Physica Status Solidi - Rapid Research Letters</i> , 2008, 2, 120-122.	1.2	67
53	3D Hierarchical Porous TiO <sub>2</sub> Films from Colloidal Composite Fluidic Deposition. <i>Chemistry of Materials</i> , 2008, 20, 7130-7135.	3.2	28
54	Crystallization of Organic Semiconductor Molecules in Nanosized Cavities: Mechanism of Polymorphs Formation Studied by <i>in Situ</i> XRD. <i>Journal of Physical Chemistry C</i> , 2008, 112, 12177-12183.	1.5	4

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55	Parallel-local anodic oxidation of silicon surfaces by soft stamps. <i>Nanotechnology</i> , 2008, 19, 435303.	1.3	55
56	Room-temperature spintronic effects in $\text{Alq}_3/\text{In}_x\text{Mn}_{1-x}\text{O}_3$ hybrid devices. <i>Physical Review B</i> , 2008, 78, .	1.3	30
57	Atom geometry of nanostructured Fe films grown on $c(2\sqrt{2})\text{-N/Cu}(100)$ surface: An investigation by X-ray absorption spectroscopy with multishell analysis. <i>Surface Science</i> , 2007, 601, 329-340.	0.8	14
58	Binuclear transition metal complexes on gold: Molecular orientation by angular dependent NEXAFS spectroscopy. <i>Surface Science</i> , 2007, 601, 3943-3947.	0.8	9
59	Magnetic properties of epitaxial Fe films on $\text{MnPt/Fe}(100)$ . <i>Surface Science</i> , 2007, 601, 4288-4291.	0.8	0
60	Growth of pentacene on $\text{Ag}(111)$ surface: A NEXAFS study. <i>Applied Surface Science</i> , 2007, 254, 103-107.	3.1	28
61	Peptides adsorption on $\text{TiO}_2$ and Au: Molecular organization investigated by NEXAFS, XPS and IR. <i>Surface Science</i> , 2007, 601, 3843-3849.	0.8	37
62	Structural and photoemission studies of $\text{SrF}_2$ adsorption on $\text{Si}(001)$ . <i>European Physical Journal Special Topics</i> , 2006, 132, 35-39.	0.2	0
63	Cobalt on calcium fluoride: Initial stages of growth and magnetic properties. <i>Surface Science</i> , 2006, 600, 4170-4175.	0.8	13
64	In situ X-ray analysis under controlled potential conditions: An innovative setup and its application to the investigation of ultrathin films electrodeposited on $\text{Ag}(111)$ . <i>Electrochimica Acta</i> , 2006, 51, 5532-5539.	2.6	41
65	Evidence for in-plane spin-flop orientation at the $\text{MnPt}/\text{Fe}(100)$ interface revealed by x-ray magnetic linear dichroism. <i>Physical Review B</i> , 2006, 73, .	1.1	13
66	High-order laser harmonics and synchrotron study of transition metals $M_{2,3}$ edges. <i>Physical Review B</i> , 2006, 73, .	1.1	25
67	Mg K-edge XANES of sepiolite and palygorskite. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2005, 238, 55-60.	0.6	30
68	X-ray-diffraction characterization of $\text{Pt}(111)$ surface nanopatterning induced by $\text{C}_{60}$ adsorption. <i>Nature Materials</i> , 2005, 4, 688-692.	13.3	88
69	Orientation tendency of PLD carbon films as a function of substrate temperature: A NEXAFS study. <i>Diamond and Related Materials</i> , 2005, 14, 959-964.	1.8	23
70	Sum rules for resonant inelastic x-ray scattering: Explicit form and angular dependence in perpendicular geometry. <i>Physical Review B</i> , 2004, 69, .	1.1	12
71	The BEAR Beamline at Elettra. <i>AIP Conference Proceedings</i> , 2004, , .	0.3	139
72	Efficiency of gratings in the conical diffraction mounting for an EUV time-compensated monochromator. , 2004, , .		8

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73	Structure properties of nanostructured Fe films grown on $c(2\sqrt{2})\sqrt{2}N/Cu(1\ 0\ 0)$ self-organised surface. Applied Surface Science, 2003, 212-213, 85-91.	3.1	3
74	Following Adsorption Kinetics at Electrolyte/Metal Interfaces through Crystal Truncation Scattering: Sulfur on Au(111). Physical Review Letters, 2003, 90, 075506.	2.9	34
75	Magnetic circular dichroism in resonant x-ray emission from impurities: Results at the $L_{2,3}$ edges of Mn in Ni. Physical Review B, 2002, 65, .	1.1	12
76	Nitric-oxide adsorption and oxidation on Pt() in electrolyte solution under potential control. Surface Science, 2002, 507-510, 688-694.	0.8	21
77	Growth morphology of $(1\sqrt{2})\sqrt{2}Sn(100)$ : a surface diffraction study. Surface Science, 2002, 507-510, 335-339.	0.8	3
78	Anisotropy in c-oriented MgB <sub>2</sub> thin films grown by pulsed laser deposition. Physica C: Superconductivity and Its Applications, 2002, 378-381, 56-60.	0.6	10
79	Magnetic circular dichroism in soft X-ray resonant inelastic scattering. Applied Physics A: Materials Science and Processing, 2001, 73, 679-686.	1.1	3
80	Growth of c-oriented MgB <sub>2</sub> thin films by pulsed laser deposition: structural characterization and electronic anisotropy. Superconductor Science and Technology, 2001, 14, 952-957.	1.8	56
81	X-ray M <sub>4,5</sub> resonant Raman scattering from La metal with a final $4p$ hole: $\Delta f$ Calculations with $4p \sim 4d \sim 4f$ configuration interaction in the final state and comparison to experiments. Physical Review B, 2001, 63, .	1.1	6
82	X-ray magnetic-circular-dichroism spectra on the superparamagnetic transition-metal ion clusters Mn <sub>12</sub> and Fe <sub>8</sub> . Physical Review B, 2001, 64, .	1.1	61
83	Resonant Raman scattering at the $L$ thresholds with final $3s$ hole in $3d^2$ -systems. $\Delta f$ II. $\Delta f$ The CoO case in the whole $L_{2,3}$ region. Physical Review B, 2001, 63, .	1.1	11
84	Resonant Raman scattering at the $L$ thresholds with final $3s$ hole in $3d^2$ -systems. I. $\Delta f$ Configuration interaction with two $3p$ hole final states in different systems. Physical Review B, 2001, 63, .	1.1	16
85	M <sub>4,5</sub> resonant Raman scattering with final $4p \sim 4d$ holes in Te, La, and Gd: Trends of the many-body effects. Physical Review B, 2000, 62, 10723-10727.	1.1	4
86	Electronic structure investigation of the room temperature coadsorption of oxygen and potassium on Ni(100): from oxygen submonolayer coverage to saturated NiO/Ni(100) via an Ni(100)-(3 $\sqrt{3}$ )-(K+O) structure. Surface Science, 2000, 461, 240-254.	0.8	6
87	Evidence of configuration interaction in resonant X-ray scattering from rare earths at the M <sub>4,5</sub> -thresholds with final $4p$ excitation. Physica B: Condensed Matter, 1999, 259-261, 1100-1101.	1.3	1
88	Competition between resonant Raman scattering and fluorescence at the $L_3$ -edges with final $3s$ hole in CoO and in NiO. Journal of Electron Spectroscopy and Related Phenomena, 1999, 101-103, 467-471.	0.8	6
89	SURFACE AND NEAR SURFACE STRUCTURE OF Fe $\epsilon$ -Co LAYERS BY SCATTERING-INTERFERENCE OF PRIMARY ELECTRONS. Surface Review and Letters, 1997, 04, 1267-1271.	0.5	10
90	Focusing-defocusing of keV electrons along [001] and [101] Fe atomic chains. Surface Science, 1997, 371, 143-148.	0.8	16

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91	Element-specific, surface and subsurface structural analysis by scattering-interference of primary electrons. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1995, 76, 723-728.	0.8	9