Francesco Borgatti

List of Publications by Year in descending order

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91 papers	2,649 citations	201385 27 h-index	197535 49 g-index
92 all docs	92 docs citations	92 times ranked	4515 citing authors

#	Article	IF	Citations
1	Room-temperature spintronic effects in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Alq</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> hybrid devices. Physical Review B, 2008, 78, .	3.7	309
2	Magnetic Proximity Effect as a Pathway to Spintronic Applications of Topological Insulators. Nano Letters, 2011, 11, 4079-4082.	4.5	194
3	The BEAR Beamline at Elettra. AIP Conference Proceedings, 2004, , .	0.3	139
4	Layered Distribution of Charge Carriers in Organic Thin Film Transistors. Physical Review Letters, 2010, 104, 246602.	2.9	130
5	Understanding the Electronic Structure of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>IrO</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Hard-X-ray Photoelectron Spectroscopy and Density-Functional Theory. Physical Review Letters, 2014, 112, 117601.	2.9	107
6	A Singleâ€Device Universal Logic Gate Based on a Magnetically Enhanced Memristor. Advanced Materials, 2013, 25, 534-538.	11.1	95
7	X-ray-diffraction characterization of Pt(111) surface nanopatterning induced by C60 adsorption. Nature Materials, 2005, 4, 688-692.	13.3	88
8	Spectroscopic Proof of the Correlation between Redoxâ€State and Chargeâ€Carrier Transport at the Interface of Resistively Switching Ti/PCMO Devices. Advanced Materials, 2014, 26, 2730-2735.	11.1	88
9	Structure, morphology, and growth dynamics of perfluoroâ€pentacene thin films. Physica Status Solidi - Rapid Research Letters, 2008, 2, 120-122.	1.2	67
10	The four polymorphic modifications of the semiconductor dibenzo-tetrathiafulvalene. CrystEngComm, 2008, 10, 1899.	1.3	62
11	X-ray magnetic-circular-dichroism spectra on the superparamagnetic transition-metal ion clusters Mn12 and Fe8. Physical Review B, 2001, 64, .	1.1	61
12	Growth ofc-oriented MgB2thin films by pulsed laser deposition: structural characterization and electronic anisotropy. Superconductor Science and Technology, 2001, 14, 952-957.	1.8	56
13	Parallel-local anodic oxidation of silicon surfaces by soft stamps. Nanotechnology, 2008, 19, 435303.	1.3	55
14	Multiscale Morphology of Organic Semiconductor Thin Films Controls the Adhesion and Viability of Human Neural Cells. Biophysical Journal, 2010, 98, 2804-2812.	0.2	50
15	Role and Optimization of the Active Oxide Layer in TiO₂â€Based RRAM. Advanced Functional Materials, 2016, 26, 507-513.	7.8	49
16	Chemical insight into electroforming of resistive switching manganite heterostructures. Nanoscale, 2013, 5, 3954.	2.8	44
17	In situ X-ray analysis under controlled potential conditions: An innovative setup and its application to the investigation of ultrathin films electrodeposited on Ag(111). Electrochimica Acta, 2006, 51, 5532-5539.	2.6	41
18	Understanding the role of tunneling barriers in organic spin valves by hard x-ray photoelectron spectroscopy. Applied Physics Letters, 2010, 96, .	1.5	41

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19	Peptides adsorption on TiO2 and Au: Molecular organization investigated by NEXAFS, XPS and IR. Surface Science, 2007, 601, 3843-3849.	0.8	37
20	Following Adsorption Kinetics at Electrolyte/Metal Interfaces through Crystal Truncation Scattering: Sulfur on Au(111). Physical Review Letters, 2003, 90, 075506.	2.9	34
21	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
22	Mg K-edge XANES of sepiolite and palygorskite. Nuclear Instruments & Methods in Physics Research B, 2005, 238, 55-60.	0.6	30
23	Revisiting the origin of satellites in core-level photoemission of transparent conducting oxides: The case of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>n</mml:mi></mml:math> -doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SnO</mml:mi><mml:mn>2</mml:mn></mml:msub></m Physical Review B, 2018, 97.	1.1	30
24	Spectroscopic Indications of Tunnel Barrier Charging as the Switching Mechanism in Memristive Devices. Advanced Functional Materials, 2017, 27, 1702282.	7.8	29
25	Growth of pentacene on Ag(111) surface: A NEXAFS study. Applied Surface Science, 2007, 254, 103-107.	3.1	28
26	3D Hierarchical Porous TiO2 Films from Colloidal Composite Fluidic Deposition. Chemistry of Materials, 2008, 20, 7130-7135.	3.2	28
27	Conditions for the growth of smooth La0.7Sr0.3MnO3 thin films by pulsed electron ablation. Thin Solid Films, 2013, 534, 83-89.	0.8	28
28	Additive nanoscale embedding of functional nanoparticles on silicon surface. Nanoscale, 2010, 2, 2069.	2.8	27
29	Quantifying the critical thickness of electron hybridization in spintronics materials. Nature Communications, 2017, 8, 16051.	5.8	26
30	High-order laser harmonics and synchrotron study of transition metalsM2,3edges. Physical Review B, 2006, 73, .	1.1	25
31	Role of Oxygen Deposition Pressure in the Formation of Ti Defect States in TiO₂(001) Anatase Thin Films. ACS Applied Materials & Interfaces, 2017, 9, 23099-23106.	4.0	25
32	Identification of Different Electron Screening Behavior Between the Bulk and Surface of (Ga,Mn)As. Physical Review Letters, 2011, 107, 187203.	2.9	24
33	Orientation tendency of PLD carbon films as a function of substrate temperature: A NEXAFS study. Diamond and Related Materials, 2005, 14, 959-964.	1.8	23
34	Morphological and mechanical properties of alkanethiol self-assembled monolayers investigated via bimodal atomic force microscopy. Chemical Communications, 2011, 47, 8823.	2.2	23
35	A Combined Ion Scattering, Photoemission, and DFT Investigation on the Termination Layer of a La_{0.7}Sr_{0.3}MnO₃ Spin Injecting Electrode. Journal of Physical Chemistry C, 2014, 118, 13631-13637.	1.5	23
36	Identifying the character of ferromagnetic Mn in epitaxial Fe/(Ga,Mn)As heterostructures. Physical Review B, 2010, 81, .	1.1	22

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37	Iron 1s X-ray photoemission of Fe2O3. Journal of Electron Spectroscopy and Related Phenomena, 2015, 203, 8-13.	0.8	22
38	Nitric-oxide adsorption and oxidation on Pt() in electrolyte solution under potential control. Surface Science, 2002, 507-510, 688-694.	0.8	21
39	Oxygen Impurities Link Bistability and Magnetoresistance in Organic Spin Valves. ACS Applied Materials & Interfaces, 2018, 10, 8132-8140.	4.0	20
40	Organic field-effect transistors as new paradigm for large-area molecular junctions. Organic Electronics, 2012, 13, 789-795.	1.4	19
41	Surface induces different crystal structures in a room temperature switchable spin crossover compound. Dalton Transactions, 2016, 45, 134-143.	1.6	19
42	Direct insight into the band structure of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SrNbO</mml:mi><mml:mn>3</mml:mn></mml:msub></r Physical Review Materials, 2020, 4, .	n/a	17
43	Focusing-defocusing of keV electrons along [001] and [101] Fe atomic chains. Surface Science, 1997, 371, 143-148.	0.8	16
44	Resonant Raman scattering at theLthresholds with final3shole in3d2+systems. I.â€ƒConfiguration interaction with two3phole final states in different systems. Physical Review B, 2001, 63, .	1.1	16
45	X-Ray-Induced Modification of the Photophysical Properties of MAPbBr₃ Single Crystals. ACS Applied Materials & Interfaces, 2021, 13, 58301-58308.	4.0	15
46	Atom geometry of nanostructured Fe films grown on c(2Ã—2)-N/Cu(100) surface: An investigation by X-ray absorption spectroscopy with multishell analysis. Surface Science, 2007, 601, 329-340.	0.8	14
47	Cobalt on calcium fluoride: Initial stages of growth and magnetic properties. Surface Science, 2006, 600, 4170-4175.	0.8	13
48	Evidence for in-plane spin-flop orientation at theMnPtâ•Fe(100)interface revealed by x-ray magnetic linear dichroism. Physical Review B, 2006, 73, .	1.1	13
49	Spectroscopic elucidation of ionic motion processes in tunnel oxide-based memristive devices. Faraday Discussions, 2019, 213, 215-230.	1.6	13
50	Magnetic circular dichroism in resonant x-ray emission from impurities: Results at theL2,3edges of Mn in Ni. Physical Review B, 2002, 65, .	1.1	12
51	Sum rules for resonant inelastic x-ray scattering: Explicit form and angular dependence in perpendicular geometry. Physical Review B, 2004, 69, .	1.1	12
52	Chemical states and ferromagnetism in heavily Mn-substituted zinc oxide thin films. Journal of Applied Physics, 2014, 115, .	1.1	12
53	Resonant Raman scattering at theLthresholds with final 3shole in 3d2+systems.â€ƒII.â€ƒ The CoO case in the wholeL2,3region. Physical Review B, 2001, 63, .	1.1	11
54	A high-vacuum deposition system for in situ and real-time electrical characterization of organic thin-film transistors. Review of Scientific Instruments, 2011, 82, 025110.	0.6	11

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55	Morphological Transitions in Organic Ultrathin Film Growth Imaged by In Situ Step-by-Step Atomic Force Microscopy. Journal of Physical Chemistry C, 2020, 124, 14030-14042.	1.5	11
56	SURFACE AND NEAR SURFACE STRUCTURE OF Feâ€“Co LAYERS BY SCATTERING-INTERFERENCE OF PRIMARY ELECTRONS. Surface Review and Letters, 1997, 04, 1267-1271.	0.5	10
57	Anisotropy in c-oriented MgB2 thin films grown by pulsed laser deposition. Physica C: Superconductivity and Its Applications, 2002, 378-381, 56-60.	0.6	10
58	Hydrophilic self-assembly monolayers for pentacene-based thin-film transistors. Organic Electronics, 2013, 14, 1891-1897.	1.4	10
59	Low intrinsic carrier density LSMO/Alq3/AlOx/Co organic spintronic devices. Applied Physics Letters, 2018, 112, .	1.5	10
60	Transient quantum isolation and critical behavior in the magnetization dynamics of half-metallic manganites. Physical Review B, 2019, 100, .	1.1	10
61	Element-specific, surface and subsurface structural analysis by scattering-interference of primary electrons. Journal of Electron Spectroscopy and Related Phenomena, 1995, 76, 723-728.	0.8	9
62	Binuclear transition metal complexes on gold: Molecular orientation by angular dependent NEXAFS spectroscopy. Surface Science, 2007, 601, 3943-3947.	0.8	9
63	Opposite Surface and Bulk Solvatochromic Effects in a Molecular Spin-Crossover Compound Revealed by Ambient Pressure X-ray Absorption Spectroscopy. Langmuir, 2018, 34, 3604-3609.	1.6	9
64	Doping Evolution of the Local Electronic and Structural Properties of the Double Perovskite Ba₂Na_{1â€“x}Ca_xOsO₆. Journal of Physical Chemistry C, 2020, 124, 16577-16585.	1.5	9
65	Efficiency of gratings in the conical diffraction mounting for an EUV time-compensated monochromator. , 2004, , .		8
66	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
67	Electronic properties of embedded MnAs nano-clusters in a GaAs matrix and (Ga,Mn)As films: Evidence of distinct metallic character. Applied Physics Letters, 2012, 100, 203121.	1.5	7
68	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
69	Competition between resonant Raman scattering and fluorescence at the L3-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
70	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)-(3Ã—3)-(K+O) structure.. Surface Science, 2000, 461, 240-254.	0.8	6
71	X-rayM4,5resonant Raman scattering from La metal with a final4phole:â€ƒCalculations with4pâ^'14dâ^'14fconfiguration interaction in the final state and comparison to experiments. Physical Review B, 2001, 63, .	1.1	6
72	Photoluminescence as a probe of molecular organization in PDI8-CN2 ultra-thin films. Journal of Luminescence, 2017, 187, 403-409.	1.5	6

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73	Oxygenâ€Driven Metalâ€“Insulator Transition in SrNbO₃ Thin Films Probed by Infrared Spectroscopy. Advanced Electronic Materials, 2022, 8, .	2.6	6
74	Evidence of Robust Half-Metallicity in Strained Manganite Films. Journal of Physical Chemistry C, 2021, 125, 14430-14437.	1.5	5
75	M4,5resonant Raman scattering with final4pâ^'4dholes in Te, La, and Gd: Trends of the many-body effects. Physical Review B, 2000, 62, 10723-10727.	1.1	4
76	Crystallization of Organic Semiconductor Molecules in Nanosized Cavities: Mechanism of Polymorphs Formation Studied by in Situ XRD. Journal of Physical Chemistry C, 2008, 112, 12177-12183.	1.5	4
77	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
78	Charge-transfer in B-site-depleted NdGaO₃/SrTiO₃ heterostructures. APL Materials, 2018, 6, 076104.	2.2	4
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 morphology of (1Ã—2) Î±-Sn(100): a surface diffraction study. Surface Science, 2002, 507-510, 335-339.	0.8	3
81	Structure properties of nanostructured Fe films grown on c(2 Ã— 2) N/Cu(1 0 0) self-organised surface. Applied Surface Science, 2003, 212-213, 85-91.	3.1	3
82	Surface X-ray diffraction analysis of Fe nanostructured films grown on c(2Ã—2)-N/Cu(100). Surface Science, 2012, 606, 813-819.	0.8	3
83	Chemical, electronic, and magnetic structure of LaFeCoSi alloy: Surface and bulk properties. Journal of Applied Physics, 2014, 115, 203901.	1.1	3
84	Buried Interfaces Effects in Ionic Conductive LaF₃â€“SrF₂ Multilayers. Advanced Materials Interfaces, 2017, 4, 1600875.	1.9	3
85	Identification of hidden orbital contributions in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>La</mml:mi><mml:mrow><mml:mn>0.65</mml:mn> valence band. Physical Review Materials, 2021, 5, .	2.9	2
86	Evidence of configuration interaction in resonant X-ray scattering from rare earths at the M4,5-thresholds with final 4p excitation. Physica B: Condensed Matter, 1999, 259-261, 1100-1101.	1.3	1
87	Monitoring the crystallization process of nano-confined organic molecules by synchrotron X-ray diffraction. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 411-413.	0.6	1
88	Magnetic Depth Profiling of the Co/C60 Interface Through Soft X-Ray Resonant Magnetic Reflectivity. IEEE Transactions on Magnetics, 2020, 56, 1-6.	1.2	1
89	Structural and photoemission studies of SrF2adsorption on Si(001). European Physical Journal Special Topics, 2006, 132, 35-39.	0.2	0
90	Magnetic properties of epitaxial Fe films on MnPt/Fe(100). Surface Science, 2007, 601, 4288-4291.	0.8	0

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91	Resonant Inelastic Soft X-ray Scattering Study of Co-Doped Maghemite Nanoparticles. Journal of Nanoscience and Nanotechnology, 2019, 19, 4980-4986.	0.9	0