

Ivan Davoli

List of Publications by Year in descending order

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116
papers

1,776
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331670

21
h-index

330143

37
g-index

117
all docs

117
docs citations

117
times ranked

1821
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of CdS sputtering deposition on low temperature pulsed electron deposition Cu(In,Ga)Se ₂ solar cells. <i>Thin Solid Films</i> , 2020, 697, 137833.	1.8	2
2	Nano-indentation mechanical characterizations of solution processed inorganic metal oxide thin films and influence of grain size. <i>AIP Advances</i> , 2020, 10, 105016.	1.3	1
3	Structural Evolution of MoO ₃ Thin Films Deposited on Copper Substrates upon Annealing: An X-ray Absorption Spectroscopy Study. <i>Condensed Matter</i> , 2019, 4, 41.	1.8	20
4	MoO ₃ films grown on polycrystalline Cu: Morphological, structural, and electronic properties. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019, 37, .	2.1	15
5	Boosting highly transparent and conducting indium zinc oxide thin films through solution combustion synthesis: influence of rapid thermal annealing. <i>Semiconductor Science and Technology</i> , 2018, 33, 105004.	2.0	10
6	Multiscale mechanical characterization of hybrid Ti/PMMA layered materials. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 532, 244-251.	4.7	13
7	Mechanical characterization of stacked thin films: The cases of aluminum zinc oxide and indium zinc oxide grown by solution and combustion synthesis. <i>Thin Solid Films</i> , 2017, 640, 109-115.	1.8	3
8	Rapid Thermal Annealing for Solution Synthesis of Transparent Conducting Aluminum Zinc Oxide Thin Films. <i>Journal of Electronic Materials</i> , 2017, 46, 6609-6616.	2.2	7
9	Anodization-based process for the fabrication of all niobium nitride Josephson junction structures. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 539-546.	2.8	2
10	Atomic Force Microscopy Techniques for Nanomechanical Characterization: A Polymeric Case Study. <i>Jom</i> , 2015, 67, 849-857.	1.9	16
11	Characterization of Thick Film of Copper Electrodeposited for Cryogenic Applications. <i>Journal of the Electrochemical Society</i> , 2014, 161, D540-D545.	2.9	3
12	IRIDE: Interdisciplinary research infrastructure based on dual electron linacs and lasers. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 740, 138-146.	1.6	9
13	MOD Derived Pyrochlore Films as Buffer Layer for All-Chemical YBCO Coated Conductors. <i>IEEE Transactions on Applied Superconductivity</i> , 2013, 23, 6600505-6600505.	1.7	15
14	Discoloration of the smalt pigment: experimental studies and ab initio calculations. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 1941.	3.0	21
15	Oxidation Behavior at the Ni-W and $\{m \text{ CeO}_2\}$ Interface With and Without Pd Over Layer. <i>IEEE Transactions on Applied Superconductivity</i> , 2011, 21, 2891-2895.	1.7	1
16	Structural and chemical evolution of propionate based metal-organic precursors for superconducting YBa ₂ Cu ₃ O _{7-δ} epitaxial film growth. <i>Semiconductor Science and Technology</i> , 2011, 24, 115008.	3.5	22
17	Electrical and Mechanical Characterization of Coated Conductors Lap Joints. <i>IEEE Transactions on Applied Superconductivity</i> , 2010, 20, 1549-1552.	1.7	29
18	Natural hybrid organic-inorganic photovoltaic devices. <i>Superlattices and Microstructures</i> , 2009, 45, 555-563.	3.1	9

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19	Indentation modulus and hardness of viscoelastic thin films by atomic force microscopy: A case study. <i>Ultramicroscopy</i> , 2009, 109, 1417-1427.	1.9	37
20	Deposition and Characterization of Metal Propionate Derived Epitaxial $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Films for Coated Conductor Fabrication. <i>IEEE Transactions on Applied Superconductivity</i> , 2009, 19, 3204-3207.	1.7	15
21	Electron spectroscopy analysis on NbN to grow and characterize NbN/AlN/NbN Josephson junction. <i>Superlattices and Microstructures</i> , 2008, 43, 518-523.	3.1	8
22	Atomic force acoustic microscopy characterization of nanostructured selenium thin films. <i>Superlattices and Microstructures</i> , 2008, 44, 641-649.	3.1	35
23	Characterization of epitaxial $\text{YBa}_2\text{Cu}_3\text{O}_7$ films deposited by metal propionate precursor solution. <i>Superconductor Science and Technology</i> , 2008, 21, 125015.	3.5	21
24	A new procedure for the quantitative analysis of extended x-ray absorption fine structure data in total reflection geometry. <i>Review of Scientific Instruments</i> , 2008, 79, 103902.	1.3	16
25	Quantitative measurement of indentation hardness and modulus of compliant materials by atomic force microscopy. <i>Review of Scientific Instruments</i> , 2008, 79, 066105.	1.3	26
26	Electron spectroscopy study in the NbN growth for NbN/AlN interfaces. <i>Surface Science</i> , 2007, 601, 2647-2650.	1.9	15
27	XAS study of a Pt-containing rod-like organometallic polymer. <i>Chemical Physics</i> , 2006, 325, 422-428.	1.9	10
28	Characterization of thermally treated Mo/Si multilayer mirrors with standing wave-assisted EXAFS. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006, 246, 127-130.	1.4	5
29	Optimization of a NOx gas sensor based on single walled carbon nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2006, 118, 226-231.	7.8	66
30	Electronic Characterization of the SingleWall Carbon Nanotubes a XANES Study. <i>Physica Scripta</i> , 2005, , 717.	2.5	1
31	X-ray absorption and photoelectron spectroscopy studies on graphite and single-walled carbon nanotubes: Oxygen effect. <i>Applied Physics Letters</i> , 2005, 87, 051923.	3.3	53
32	Magnetisation and magnetostriction in Fe/Terfecohan/Fe sandwich films with an extended domain wall formation. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, E1597-E1599.	2.3	3
33	Structure of a monolayer of Pd-diethynylbiphenyl deposited on chromium studied by total reflection EXAFS. <i>Sensors and Actuators B: Chemical</i> , 2004, 100, 131-134.	7.8	8
34	$\text{In}_x\text{Ga}(1-x)\text{As}$ quantum dots grown on GaAs studied by EXAFS in total reflection mode (RefLEXAFS). <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003, 200, 85-89.	1.4	8
35	Probing the initial stages of solid-state reactions by total reflection EXAFS (refLEXAFS). <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003, 200, 421-424.	1.4	13
36	The RefLEXAFS station at the GILDA beamline (BM08) of ESRF. <i>Journal of Synchrotron Radiation</i> , 2003, 10, 260-264.	2.4	53

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37	Do we have a probe for the initial stages of solid state reactions?. Physical Chemistry Chemical Physics, 2003, 5, 2244-2247.	2.8	13
38	The effect of Sb surfactant on the growth of (GenSim)p layers on Si: a reflEXAFS study. Surface Science, 2002, 518, 183-191.	1.9	9
39	THE VALENCE AND SPECIATION OF SULFUR IN GLASSES BY X-RAY ABSORPTION SPECTROSCOPY. Canadian Mineralogist, 2001, 39, 331-339.	1.0	58
40	Temperature modification of the Nb oxidation at the Nb/Al interface studied by reflEXAFS. Surface Science, 2000, 468, 77-84.	1.9	20
41	Local structural investigation of silicon surfaces by electron scattering. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1998, 20, 991-998.	0.4	0
42	Evidence for the suppression of incident beam effects in Auger electron diffraction. Surface Science, 1998, 396, 221-226.	1.9	2
43	Surfactant-Mediated Growth of Ge/Si(001) Interface Studied by XPD. Surface Review and Letters, 1998, 05, 157-161.	1.1	6
44	Low kinetic energy AED: a tool for the study of Ge epitaxial layers grown on Sb-terminated Si(111) surface. Journal of Electron Spectroscopy and Related Phenomena, 1997, 83, 137-142.	1.7	3
45	XPD study of atomic intermixing at the Ge/Si(001) interface. Applied Surface Science, 1996, 102, 102-106.	6.1	7
46	Interface ordering inSim/Genmonolayer superlattices: A photoluminescence study. Physical Review B, 1996, 53, 1030-1033.	3.2	4
47	X-ray photoelectron-diffraction study of intermixing and morphology at the Ge/Si(001) and Ge/Sb/Si(001) interface. Physical Review B, 1996, 54, 8882-8891.	3.2	39
48	Structural surface investigation with low energy backscattered electrons. Journal of Electron Spectroscopy and Related Phenomena, 1995, 76, 29-36.	1.7	2
49	Incident beam effects in AED (Auger Electron Diffraction): the case of Cu(001). Journal of Electron Spectroscopy and Related Phenomena, 1995, 76, 493-497.	1.7	4
50	An experimental study of an interface reaction at the practical Pd/Si interface by XPS. Vacuum, 1995, 46, 139-142.	3.5	10
51	Theoretical analysis of x-ray-absorption spectra at the siliconKandL2,3edges of crystalline and amorphousSiO2. Physical Review B, 1995, 52, 10014-10020.	3.2	31
52	Auger-electron diffraction in the low kinetic-energy range: The Si(111)7Å-7 surface reconstruction and Ge/Si interface formation. Physical Review B, 1995, 52, 1806-1815.	3.2	25
53	Inelastic processes versus diffraction effects: Polar-angle energy-loss spectra of the graphiteKedge. Physical Review B, 1995, 52, 17091-17098.	3.2	9
54	Local structure of diamond films: Auger and EELFS investigation. Surface Science, 1995, 331-333, 1050-1055.	1.9	5

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55	High-temperature oxidation of one- and two-component metallic systems studied by in-situ X-ray absorption spectroscopy. <i>Journal of Alloys and Compounds</i> , 1995, 218, 237-243.	5.5	4
56	The initial adsorption of oxygen on the Si(111)7 \times 7 surface at 150 K. <i>Applied Surface Science</i> , 1994, 78, 293-297.	6.1	4
57	The study of MgO(001) surfaces by photoelectron diffraction. <i>Surface Science</i> , 1994, 314, 145-156.	1.9	25
58	Angular dependence of the EXFAS (extended fine Auger structure) in MgO(100) surfaces: short-range order versus diffraction effects. <i>Surface Science</i> , 1994, 306, 144-154.	1.9	17
59	An experimental study of interface reaction at the practical Pt/Si interface by XPS. <i>Vacuum</i> , 1993, 44, 1189-1192.	3.5	2
60	Low-temperature mechanical energy dissipation phenomena in lanthanum superconductors. <i>Physica C: Superconductivity and Its Applications</i> , 1993, 207, 300-306.	1.2	12
61	Dissociative chemisorption of water on the Si(111) 7 \times 7 surface studied at 150 K by X-ray photoelectron spectroscopy and energy loss spectroscopy. <i>Journal of Physics Condensed Matter</i> , 1992, 4, 5855-5862.	1.8	3
62	Mechanical energy dissipation phenomena in 1-2-4 yttrium superconductors. <i>Journal of Physics Condensed Matter</i> , 1992, 4, L115-L117.	1.8	1
63	High-temperature oxidation technique by in situ characterization of oxide growth. <i>Journal of Materials Chemistry</i> , 1992, 2, 745.	6.7	2
64	Structure of densified vitreous silica: Silicon and oxygen XANES spectra and multiple scattering calculations. <i>Physics and Chemistry of Minerals</i> , 1992, 19, 171.	0.8	53
65	Extended energy loss fine structure technique: an analytical tool for surface and bulk characterization. <i>Vacuum</i> , 1992, 43, 393-396.	3.5	0
66	Some aspects of mechanical energy dissipation phenomena in yttrium superconductors.. <i>Solid State Communications</i> , 1992, 83, 793-797.	1.9	6
67	Magnetic properties of diluted (Zn $_{1-x}$ Mn $_x$) $_3$ As $_2$ solutions. <i>Solid State Communications</i> , 1992, 84, 531-535.	1.9	5
68	Enhanced backscattering of light in a polycrystalline organic film. <i>Thin Solid Films</i> , 1992, 207, 4-5.	1.8	2
69	Urbach effects in the kinetics of core holes for excitation of cross-luminescence. <i>Journal of Luminescence</i> , 1992, 51, 275-282.	3.1	15
70	The oxygen adsorption and the initial oxidation of indium. <i>Applied Surface Science</i> , 1992, 59, 195-199.	6.1	15
71	XPS and AES studies of the interface reaction at the practical Pt/InP interface. <i>Applied Surface Science</i> , 1992, 62, 249-254.	6.1	2
72	Exchange interaction and the g-factor for 2D-electrons in heterostructures GaAs-Ga $_{1-x}$ Al $_x$ As. <i>Solid State Communications</i> , 1991, 77, 961-965.	1.9	2

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73	Determining Fe-Mg Intersite Distribution in natural and heated Orthopyroxenes by Synchrotron X-ray Absorption Spectroscopy. Rendiconti Lincei, 1991, 2, 379-387.	2.2	4
74	Electrical Conductivity of NH ₂ -Substituted Ni(II)-Phthalocyanine. Physica Status Solidi A, 1991, 125, 597-607.	1.7	15
75	Variations of internal friction in YBa ₂ Cu ₃ O _x superconductors. Journal of Materials Science, 1990, 25, 2125-2128.	3.7	1
76	Some properties of thin layers of silica containing carbon and iron oxides prepared by the sol-gel method. Journal of Materials Science, 1990, 25, 2569-2572.	3.7	4
77	Internal friction in high T _c iron doped 1-2-3 yttrium ceramic superconductors. Solid State Communications, 1990, 74, 595-598.	1.9	19
78	Relaxation phenomena in 1-2-3 high T _c superconductors. Solid State Communications, 1990, 75, 789-790.	1.9	7
79	Elastic constant and internal friction in YBa ₂ Cu ₃ O _x single crystal. Solid State Communications, 1990, 76, 357-360.	1.9	7
80	Drift resonance in the quantum hall effect. Solid State Communications, 1990, 73, 583-588.	1.9	7
81	Optical Constants of Tetracene Single Crystal within the First Absorption Band. Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics, 1989, 166, 233-244.	0.3	2
82	Superconducting and anelastic effects in Pb-doped BiSrCaCuO ceramics. Physica C: Superconductivity and Its Applications, 1989, 160, 25-29.	1.2	7
83	Xanes studies of bis-1-oxopyridine-2-thiolato Pt(II) complexes. Chemical Physics Letters, 1989, 155, 599-602.	2.6	0
84	Palladium L ₃ absorption edge of PdH _{0.6} films: Evidence for hydrogen induced unoccupied states. Solid State Communications, 1989, 71, 383-390.	1.9	18
85	Anelastic effects in CuO. Solid State Communications, 1989, 72, 97-99.	1.9	9
86	Thermoluminescence Study of Charge Traps in Polycrystalline Layers of Phenanthrene. Physica Status Solidi (B): Basic Research, 1988, 149, 363-370.	1.5	4
87	X-ray absorption spectroscopy in compressed vitreous silica and vanadium pentoxide gel. Journal of Non-Crystalline Solids, 1987, 95-96, 327-333.	3.1	1
88	Local structure of nickel oxide grown at high temperatures in ceramic electrolyte cells. Journal of the Chemical Society Faraday Transactions I, 1987, 83, 289.	1.0	6
89	Xanes analysis on pyroxenes with different Ca concentration in M ₂ site. Physics and Chemistry of Minerals, 1987, 14, 21-25.	0.8	16
90	Partial density of unoccupied states and L _{2,3} -x-ray absorption spectrum of bulk silicon and of the Si(1 1) Tj ETQq0 0 0 rgBT /Overlock 10	1.9	25

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91	Asymmetries in the optical properties of vacuum-deposited organic films illuminated at the substrate and non-substrate surfaces. <i>Thin Solid Films</i> , 1987, 146, 115-132.	1.8	19
92	The Interatomic Intermediate Valence State of Insulating Correlated Oxides CeO ₂ , PrO ₂ and TbO ₂ . , 1987, , 243-251.		2
93	EXAFS and XANES joint analyses for semiconducting vanadium phosphate glasses. <i>Journal of Non-Crystalline Solids</i> , 1986, 80, 175-180.	3.1	18
94	Internal friction in vanadium-phosphate glasses doped with Na ₂ O. <i>Journal of Non-Crystalline Solids</i> , 1986, 80, 263-268.	3.1	0
95	Three particle correlation function of metal ions in tetrahedral coordination determined by XANES. <i>Solid State Communications</i> , 1986, 58, 595-599.	1.9	38
96	Local electronic structures at selected sites of intermetallic perovskites Mn ₃ MeX (Me=divalent metal), <i>Tj ETQq0 0 0 rgBT /Overlock 10 T</i> <i>Chemical Physics, Biophysics</i> , 1986, 7, 493-505.	0.4	9
97	Local structure determination by surface XANES spectroscopy of SiO ₂ amorphous layer on NiO. <i>Journal of Materials Science Letters</i> , 1986, 5, 441-442.	0.5	0
98	Multielectron configurations in the x-ray-absorption near-edge structure of NiO at the oxygenKthreshold. <i>Physical Review B</i> , 1986, 33, 2979-2982.	3.2	85
99	Multiple-scattering regime and higher-order correlations in x-ray-absorption spectra of liquid solutions. <i>Physical Review B</i> , 1986, 34, 5774-5781.	3.2	196
100	XANES (x ray absorption near edge structure): A new probe of higher order correlation function in amorphous semiconductors. <i>Journal of Non-Crystalline Solids</i> , 1985, 77-78, 1325-1328.	3.1	6
101	Localization mixing and / or hybridization in intermetallic compounds RPd ₃ (R = La, Ce, Pr, Nd, Sm) by xanes. <i>Journal of Magnetism and Magnetic Materials</i> , 1985, 47-48, 206-208.	2.3	7
102	Determination of mixing of 4f-ligand orbitals in Ce(SO ₄) ₂ by Xanes is Ce(SO ₄) ₂ a mixed valent insulating system?. <i>Journal of Magnetism and Magnetic Materials</i> , 1985, 47-48, 209-211.	2.3	39
103	Experimental evidence for the "shake-down" peak in LIII (and LII)-xanes of light rare earth intermetallics. <i>Solid State Communications</i> , 1984, 49, 409-415.	1.9	33
104	XANES of Palladium Rare Earth Intermetallics (RPd ₃): Determination of Hybridization and Mixing of 4f-Orbitals. <i>Springer Proceedings in Physics</i> , 1984, , 52-54.	0.2	1
105	Role of multielectron excitations in the L ₃ XANES of Pd. <i>Solid State Communications</i> , 1983, 46, 367-370.	1.9	21
106	The character of metal-insulator phase transition in V ₂ O ₃ from the plasmon behaviour. <i>Solid State Communications</i> , 1983, 48, 471-474.	1.9	4
107	The local electronic structure of PdO crystal and PdO catalyst supported on SiO ₂ and γ -Al ₂ O ₃ from L ₃ and L ₁ x-ray absorption Pd edge in XANES spectra. <i>Solid State Communications</i> , 1983, 48, 475-478.	1.9	21
108	Thermoreflectance study of polydiacetylene-bis (toluene sulphonate) single crystal (PDA-TS). <i>Journal of Physics C: Solid State Physics</i> , 1983, 16, 2165-2176.	1.5	2

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109	XANES Determination of V-Mixed Valence State in $(V_2O_5)_x(P_2O_5)_{100-x}$ Binary Oxide Glasses. Springer Series in Chemical Physics, 1983, , 162-164.	0.2	4
110	High-Resolution Analysis of the L _{2,3} White Lines of Pd. Springer Series in Chemical Physics, 1983, , 177-179.	0.2	0
111	Sexafs study of the natural oxide on iron surface detected by total photoelectron yield. Solid State Communications, 1982, 44, 1585-1588.	1.9	6
112	Internal friction and electrical conductivity in iron-vanadium-phosphate glasses. Journal of Materials Science Letters, 1982, 1, 264-267.	0.5	3
113	Intermediate valence and near-edge structure in the x-ray absorption spectrum of $CePd_3$, Ce , and $CeCu_2Si_2$. Physical Review B, 1981, 24, 6139-6142.	3.2	18
114	Giant Raman scattering and luminescence by molecules adsorbed on Ag and Au metal island films. Surface Science, 1980, 101, 363-366.	1.9	74
115	Shift of electronic states at L in β -phase Cu-Zn and Cu-Al alloys. Journal of Physics F: Metal Physics, 1979, 9, 2275-2285.	1.6	9
116	Shift of electronic states at L in α -phase Cu-Zn and Cu-Al alloys. Journal of Physics F: Metal Physics, 1979, 9, 2523-2523.	1.6	0