Bruno Domenichini

List of Publications by Year
in descending order

76 papers	1,033 citations	471477 17 h-index	501174 28 g-index
77 all docs	77 docs citations	77 times ranked	1299 citing authors

#	Article	IF	Citations
1	Superficial defects induced by argon and oxygen bombardments on (110) TiO2 surfaces. Surface Science, 1998, 410, 250-257.	1.9	100
2	Intrinsic Nature of the Excess Electron Distribution at the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>TiO</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mo stretchy="false">(</mml:mo><mml:mn>110</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 687 Td (stretchy="false">)</mn	7.8	69
3	Amorphous TiO2 in LP-OMCVD TiNxOy thin films revealed by XPS. Applied Surface Science, 2001, 177, 268-272.	6.1	58
4	Temperature and substrate influence on the structure of TiN O thin films grown by low pressure metal organic chemical vapour deposition. Surface and Coatings Technology, 2000, 125, 396-399.	4.8	41
5	Effect of the surface stoichiometry on the interaction of Mo with TiO2 (110). Surface Science, 2000, 468, 192-202.	1.9	36
6	Non-hindered ansasamarocenes, versatile catalysts for diene/olefin/polar monomer copolymerisations. What is really the active species?. Journal of Organometallic Chemistry, 2002, 647, 167-179.	1.8	35
7	A model for oxidation in finely divided ferrites taking into account the stresses generated during reaction. Journal of Physics and Chemistry of Solids, 1996, 57, 1641-1652.	4.0	33
8	Iron deposition on TiO2(110): effect of the surface stoichiometry and roughness. Surface Science, 1999, 437, 107-115.	1.9	33
9	Correlation Between the Electrical Properties and the Morphology of Low-Pressure MOCVD Titanium Oxynitride Thin Films Grown at Various Temperatures. Chemical Vapor Deposition, 2000, 6, 109-114.	1.3	29
10	Molybdenum deposition on TiO2 (110) surfaces with different stoichiometries. Applied Surface Science, 1999, 142, 114-119.	6.1	24
11	Nanodiamondâ€Palladium Coreâ€"Shell Organohybrid Synthesis: A Mild Vaporâ€Phase Procedure Enabling Nanolayering Metal onto Functionalized sp³â€Carbon. Advanced Functional Materials, 2018, 28, 1705786.	14.9	22
12	Interfacial reaction between deposited molybdenum and TiO2(110) surface: role of the substrate bulk stoichiometry. Surface Science, 2004, 560, 63-78.	1.9	21
13	Experimental and theoretical evidence for substitutional molybdenum atoms in theTiO2(110)subsurface. Physical Review B, 2006, 73, .	3.2	20
14	Diamondoid Nanostructures as sp³â€Carbonâ€Based Gas Sensors. Angewandte Chemie - International Edition, 2019, 58, 9933-9938.	13.8	20
15	The functionalization of nanodiamonds (<i>diamondoids</i>) as a key parameter of their easily controlled self-assembly in micro- and nanocrystals from the vapor phase. Nanoscale, 2015, 7, 1956-1962.	5.6	19
16	Evidence of hexagonal WO3 structure stabilization on mica substrate. Thin Solid Films, 2009, 517, 6565-6568.	1.8	18
17	Thermal stability of Auâ€"TiO2 nanocomposite films prepared by direct liquid injection CVD. Vacuum, 2015, 122, 314-320.	3.5	18
18	Cationic distribution and mechanism of the oxidation of V3+ ions in vanadium-substituted magnetites. Thermochimica Acta, 1994, 244, 223-234.	2.7	17

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19	A photoemission study of molybdenum hexacarbonyl adsorption and decomposition on TiO2(110) surface. Surface Science, 2007, 601, 1144-1152.	1.9	17
20	Study by electrical conductivity, derivative thermogravimetry, infrared spectrometry and X-ray photoelectron spectroscopy of oxidation process of Fe2MoO4 in relation to the cationic distribution. Thermochimica Acta, 1992, 205, 259-269.	2.7	16
21	Effect of the Mo atom flow on the molybdenum growth on TiO2 (110) surface. Journal of Crystal Growth, 2004, 263, 256-262.	1.5	16
22	An epitaxial hexagonal tungsten bronze as precursor for WO3 nanorods on mica. Journal of Crystal Growth, 2008, 310, 3318-3324.	1.5	16
23	Bimetallic PdAg nanoparticle arrays from monolayer films of diblock copolymer micelles. Nanoscale, 2015, 7, 13239-13248.	5.6	16
24	WC-based thin films obtained by reactive radio-frequency magnetron sputtering using W target and methane gas. Thin Solid Films, 2015, 591, 119-125.	1.8	16
25	Cationic distribution and oxidation kinetics of trivalent molybdenum ions in submicron molybdenum substituted magnetites. Solid State Ionics, 1992, 58, 61-69.	2.7	15
26	Influence of the Design in Microwave-based Gas Sensors: Ammonia Detection with Titania Nanoparticles. Procedia Engineering, 2016, 168, 264-267.	1.2	15
27	A photoelectron diffraction study of the surface-V2O3 (2Ã—2) layer on Pd(111). Surface Science, 2003, 529, L234-L238.	1.9	13
28	Sintering of Fe2NiO4 with an internal binder: a way to obtain a very dense material. Acta Materialia, 2003, 51, 4815-4821.	7.9	13
29	Evidence of a hopping mechanism between Mo3+ and Mo4+ octahedral cations in molybdenum spinel ferrites. Materials Chemistry and Physics, 1994, 39, 80-84.	4.0	12
30	Epitaxial growth of molybdenum on TiO2(110). Surface Science, 2003, 544, 135-146.	1.9	12
31	Reactivity between molybdenum and TiO2(110) surfaces: evidence of a sub-monolayer mode and a multilayer mode. Applied Surface Science, 2005, 244, 403-407.	6.1	12
32	Surface preparation influence on the initial stages of MOCVD growth of TiO2 thin films. Thin Solid Films, 2006, 515, 687-690.	1.8	12
33	Monolayer Formation of Molybdenum Carbonyl on Cu(111) Revealed by Scanning Tunneling Microscopy and Density Functional Theory. Journal of Physical Chemistry C, 2012, 116, 10617-10622.	3.1	12
34	Coexistence of several structural phases in MOCVD TiO2layers: evolution from nanometre to micrometre thick films. Journal Physics D: Applied Physics, 2009, 42, 175302.	2.8	11
35	Correlation between Vibrational Spectrometry Behavior and Oxidation Mechanism of Molybdenum Substituted Magnetites. Journal of Solid State Chemistry, 1993, 103, 16-24.	2.9	10
36	Molybdenum thin-film growth on rutile titanium dioxide (). Surface Science, 2002, 506, 119-128.	1.9	10

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37	Titanium dioxide surface stoichiometry and ordering studied by resonant photoemission spectroscopy. Applied Surface Science, 2005, 244, 399-402.	6.1	10
38	Defects at the TiO2(100) surface probed by resonant photoelectron diffraction. Surface Science, 2007, 601, 3952-3955.	1.9	10
39	Direct liquid injection chemical vapor deposition of platinum doped cerium oxide thin films. Thin Solid Films, 2015, 589, 246-251.	1.8	9
40	MOCVD growth of porous cerium oxide thin films on silicon substrate. Surface and Coatings Technology, 2015, 280, 148-153.	4.8	9
41	Nanostructured Ptâ€“TiO2 composite thin films obtained by direct liquid injection metal organic chemical vapor deposition: Control of chemical state by X-ray photoelectron spectroscopy. Thin Solid Films, 2015, 591, 237-244.	1.8	8
42	Nanoporous Platinum Doped Cerium Oxides Thin Films Grown on Silicon Substrates: Ionic Platinum Localization and Stability. Advanced Materials Interfaces, 2017, 4, 1600821.	3.7	8
43	Theoretical investigation of the platinum substrate influence on BaTiO₃ thin film polarisation. Physical Chemistry Chemical Physics, 2019, 21, 4367-4374.	2.8	8
44	Dynamic segregation phenomena during oxidation of titanium ferrites. Journal of Materials Chemistry, 1999, 9, 1179-1183.	6.7	7
45	Stabilization of polar solid oxide surfaces: competition between adsorption and reconstruction. Surface and Interface Analysis, 2002, 34, 540-544.	1.8	7
46	Refractory metal reactivity towards oxide surface: W/TiO2(1 1 0) case. Vacuum, 2007, 82, 146-149.	3.5	7
47	Angle resolved X-ray photoemission spectroscopy double layer model for in situ characterization of metal organic chemical vapour deposition nanometric films. Thin Solid Films, 2007, 515, 6407-6410.	1.8	7
48	Mixed valence states of iron and molybdenum ions in MoxFe3âˆ’xO4 magnetites and related cation deficient ferrites. Solid State Ionics, 1992, 52, 285-286.	2.7	6
49	Effect of the preparation method and grinding time of some mixed valency ferrite spinels on their cationic distribution and thermal stability toward oxygen. Materials Chemistry and Physics, 1997, 47, 217-224.	4.0	6
50	Optical interfaces in GD-OES system for vacuum far ultraviolet detection. Journal of Analytical Atomic Spectrometry, 2003, 18, 572.	3.0	6
51	From tungsten hexacarbonyl adsorption on TiO2(110) surface to supported tungsten oxide phases. Journal of Electron Spectroscopy and Related Phenomena, 2008, 163, 19-27.	1.7	6
52	Thermal stability under air of tungstenâ€“titanium diffusion barrier layer between silica and platinum. Corrosion Science, 2014, 78, 208-214.	6.6	6
53	WOx phase growth on SiO2/Si by decomposition of tungsten hexacarbonyl: Influence of potassium on supported tungsten oxide phases. Surface Science, 2009, 603, 3041-3048.	1.9	5
54	Observation of surface reduction in porous ceria thin film grown on graphite foil substrate. Materials Today: Proceedings, 2016, 3, 2772-2779.	1.8	5

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55	Ferroelectric polarization switching induced from water adsorption in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>BaTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></m ultrathin films. Physical Review B, 2020, 101, .	3.2	5
56	Mechanism of the Mo3+ ions oxidation in submicron molybdenum substituted magnetites as determined from kinetic data. Solid State Ionics, 1992, 57, 11-13.	2.7	4
57	Scanning tunneling microscopy and spectroscopy of Mo clusters grown on TiO2(110). Surface Science, 2007, 601, 3881-3885.	1.9	4
58	CVD elaboration and in situ characterization of barium silicate thin films. Journal of the European Ceramic Society, 2010, 30, 441-446.	5.7	4
59	Tunneling induced decomposition of Mo(CO)6 onto TiO2(110) surface. Vacuum, 2012, 86, 623-626.	3.5	4
60	Trivalent cation substitution of pulverulent cobaltâ€"iron molybdates Co1 âˆ' xFexMoO4. Materials Chemistry and Physics, 1998, 55, 209-214.	4.0	3
61	Dynamics of molybdenum nano structure formation on the TiO2(110) surface: A kinetic Monte Carlo approach. Applied Surface Science, 2006, 252, 5399-5402.	6.1	3
62	Self-supported Pt-doped ceria nanofilms directly investigated by transmission electron microscopy. Applied Surface Science, 2020, 509, 145177.	6.1	3
63	Electronic exchanges between adsorbed Ni atoms and TiO2(110) surface evidenced by resonant photoemission. Journal of Electron Spectroscopy and Related Phenomena, 2011, 184, 410-413.	1.7	2
64	Photoemission study of the reactivity of barium towards SiOx thermal films. Surface Science, 2011, 605, 1704-1710.	1.9	2
65	Watching adsorption and electron beam induced decomposition on the model system Mo(CO)6/Cu(111) by X-ray absorption and photoemission spectroscopies. Applied Surface Science, 2013, 284, 248-253.	6.1	2
66	Electrical conductivity of pulverulent iron-cobalt molybdates Co1âˆ'xFexMoO4: evidence for hopping conduction. Ionics, 1995, 1, 298-303.	2.4	1
67	Molybdenum thin film growth on a TiO2 (110) substrate. Computational and Theoretical Chemistry, 2009, 903, 67-72.	1.5	1
68	Mo(CO)6 dissociation on Cu(111) stimulated by a Scanning Tunneling Microscope. Surface Science, 2013, 617, 10-14.	1.9	1
69	Excess Electrons at Oxide Surfaces. Springer Series in Surface Sciences, 2015, , 123-147.	0.3	1
70	Diamondoid Nanostructures as sp 3 â€Carbonâ€Based Gas Sensors. Angewandte Chemie, 2019, 131, 10038-10043.	2.0	1
71	Field-induced tipâ€"sample oxygen transfer in scanning tunneling microscopy on TiO2(110) (1Ã—1). Surface Science, 2008, 602, 2558-2562.	1.9	0
72	Reversible oxidation of WOx and MoOx nano phases. Catalysis Today, 2012, 181, 68-74.	4.4	0

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73	Comparative study of air and vacuum annealing atmosphere towards Pt/Tiâ€“W/SiO2 stability. Thin Solid Films, 2013, 548, 138-142.	1.8	0
74	Redox reactions in the Pt/TiO2â€“WO3/SiO2 planar system. Vacuum, 2014, 107, 247-253.	3.5	0
75	Qualification of TA6V alloy cleaning processes using supercritical CO2 cleaning, from coupled SEM, XPS, and TPD analyses. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2018, 36, 021401.	2.1	0
76	Titanium Tetraisopropoxide Adsorption and Decomposition on Cu(111). Topics in Catalysis, 2018, 61, 1375-1382.	2.8	0