

Francesca Sarto

List of Publications by Year in descending order

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53
papers

1,376
citations

393982

19
h-index

414034

32
g-index

54
all docs

54
docs citations

54
times ranked

1807
citing authors

#	ARTICLE	IF	CITATIONS
1	Heterojunction solar cell with 2% efficiency based on a Cu ₂ O substrate. Applied Physics Letters, 2006, 88, 163502.	1.5	498
2	Sputtered, electroless, and rolled palladium-ceramic membranes. Journal of Membrane Science, 2002, 196, 241-249.	4.1	107
3	Nitrogen-doped graphene films from chemical vapor deposition of pyridine: influence of process parameters on the electrical and optical properties. Beilstein Journal of Nanotechnology, 2015, 6, 2028-2038.	1.5	63
4	Accessing the optical limiting properties of metallo-dielectric photonic band gap structures. Journal of Applied Physics, 2003, 93, 5013-5017.	1.1	58
5	Characterization of second and third order optical nonlinearities of ZnO sputtered films. Applied Physics B: Lasers and Optics, 2006, 82, 431-437.	1.1	58
6	Nanotechnology of transparent metals for radio frequency electromagnetic shielding. IEEE Transactions on Electromagnetic Compatibility, 2003, 45, 586-594.	1.4	51
7	Synthesis and characterization of ZnO nanorods with a narrow size distribution. RSC Advances, 2015, 5, 49861-49870.	1.7	49
8	Laser damage dependence on structural and optical properties of ion-assisted HfO ₂ thin films. Thin Solid Films, 2001, 396, 44-52.	0.8	42
9	Hydrogen activated radiative states in GaAs/GaAlAs heterostructures and InGaAs/GaAs multiquantum wells. Journal of Applied Physics, 1992, 72, 1454-1459.	1.1	41
10	Phase Inversion in PVDF Films with Enhanced Piezoresponse Through Spin-Coating and Quenching. Polymers, 2019, 11, 1096.	2.0	39
11	Adhesion enhancement of optical coatings on plastic substrate via ion treatment. Thin Solid Films, 1999, 346, 196-201.	0.8	28
12	Nanolayered Lightweight Flexible Shields With Multidirectional Optical Transparency. IEEE Transactions on Electromagnetic Compatibility, 2005, 47, 602-611.	1.4	28
13	Second order nonlinear optical properties of zinc oxide films deposited by low temperature dual ion beam sputtering. Journal of Applied Physics, 2005, 97, 023501.	1.1	27
14	Piezoelectric Effect and Electroactive Phase Nucleation in Self-Standing Films of Unpoled PVDF Nanocomposite Films. Nanomaterials, 2018, 8, 743.	1.9	26
15	PFM Characterization of PVDF Nanocomposite Films With Enhanced Piezoelectric Response. IEEE Nanotechnology Magazine, 2018, 17, 955-961.	1.1	25
16	Carbon nanotubes growth by HFCVD: effect of the process parameters and catalyst preparation. Diamond and Related Materials, 2004, 13, 305-310.	1.8	24
17	Catalytic membrane reactors for tritium recovery from tritiated water in the ITER fuel cycle. Fusion Engineering and Design, 2000, 49-50, 953-958.	1.0	23
18	Piezoelectric Thin Films of ZnO-Nanorods/Nanowalls Grown by Chemical Bath Deposition. IEEE Nanotechnology Magazine, 2018, 17, 311-319.	1.1	23

#	ARTICLE	IF	CITATIONS
19	Spectrometric Performances of Monocrystalline Artificial Diamond Detectors Operated at High Temperature. IEEE Transactions on Nuclear Science, 2012, 59, 2416-2423.	1.2	20
20	Vacuum-ultraviolet optical properties of ion beam assisted fluoride coatings for free electron laser applications. Thin Solid Films, 2007, 515, 3858-3866.	0.8	16
21	Exciton confinement in GaAs quantum barriers. Physical Review B, 1993, 48, 1643-1646.	1.1	13
22	Sputtering yield of optical materials: Sigmund's model and experimental results. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1994, 12, 1523-1527.	0.9	11
23	Laser-induced breakdown spectroscopy as a diagnostic tool for thin films elemental composition. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2005, 60, 1098-1102.	1.5	10
24	Neutron activation analysis for investigating purity grade of copper, nickel and palladium thin films used in cold fusion experiments. Journal of Radioanalytical and Nuclear Chemistry, 2011, 290, 427-436.	0.7	10
25	Effect of ion-gun hydrogenation on the photoluminescence of degeneraten-type GaAs:Si. Physical Review B, 1993, 47, 4301-4306.	1.1	8
26	The influence of ion mass and energy on the composition of IBAD oxide films. Surface and Coatings Technology, 1998, 108-109, 297-302.	2.2	7
27	Radiation resistance of single and multilayer coatings against synchrotron radiation. , 2004, , .		7
28	Feasibility of new nanolayered transparent thin films for active shielding of low frequency magnetic field. , 0, , .		7
29	Design and realization of transparent absorbing shields for RF EM fields. , 2006, , .		7
30	The momentum transfer parameter in argon-assisted carbon coatings. Thin Solid Films, 2001, 384, 215-222.	0.8	6
31	Micro-cavity organic light emitting diodes for biochip applications. Journal of Non-Crystalline Solids, 2006, 352, 2476-2479.	1.5	6
32	Comparison of the optical properties and UV radiation resistance of HfO ₂ single layers deposited by reactive evaporation, IAD, and PIAD. , 2000, 3902, 182.		5
33	Correlation between the structural and optical properties of ion-assisted hafnia thin films. , 2000, 3902, 194.		4
34	Morphology and electrochemical properties of Pd-based catalysts deposited by different thin-film techniques. International Journal of Hydrogen Energy, 2014, 39, 14701-14711.	3.8	4
35	Quenching of excitonic lines in GaAs due to deuterium accumulation at the epilayer/substrate interface. Semiconductor Science and Technology, 1993, 8, 1231-1234.	1.0	3
36	Structural, compositional, and optical characterization of thin TiO _x Ny coatings fabricated by dual ion beam sputtering. , 1996, 2776, 392.		3

#	ARTICLE	IF	CITATIONS
37	<title>Dual ion beam sputtering coating of plastic substrates: improvement of film/substrate adhesion by minimizing the total stress at the interface</title>. , 1999, 3738, 66.		3
38	High temperature operation of single crystal diamond detectors. , 2016, , .		3
39	Dual ion beam sputtering deposition of silicon oxynitride thin films. , 1996, 2776, 373.		2
40	Deposition of robust multilayer mirror coatings for storage ring FEL lasing at 176nm. , 2005, , .		2
41	Design and characterization of optical filters for EM shielding. , 2009, , .		2
42	Hydrogen-donor-induced free-exciton splitting in GaAs. Physical Review B, 1993, 47, 12563-12567.	1.1	1
43	Dependence of the HfO ₂ thin film structure on the momentum transfer in ion-beam-assisted deposition. , 1999, , .		1
44	Radiation resistance of optical materials against synchrotron radiation. , 2003, , .		1
45	Synchrotron-radiation-induced damages in optical materials. , 2003, 4932, 366.		1
46	Surface investigation of VUV-optical components after exposure to high-energy synchrotron radiation. , 2004, , .		1
47	Spectrometric performances of monocrystalline artificial diamond detectors operated at high temperature. , 2011, , .		1
48	Search for neutron flux generation in a plasma discharge electrolytic cell. European Physical Journal C, 2014, 74, 1.	1.4	1
49	Exciton modes in quantum barriers. , 1993, 1985, 376.		0
50	<title>Influence of deposition parameters on rf-sputtered DLC thin films</title>. , 1999, , .		0
51	<title>Optical and mechanical properties of diamondlike carbon produced by dual ion beam sputtering technique</title>. , 1999, 3738, 58.		0
52	Optical limiting properties of metallodielectric photonic bandgap structures. , 2003, , .		0
53	Behaviour of ⁶ LiF covered single crystal diamond detectors operated at high temperature under neutron irradiation. , 2013, , .		0