

# Maria C Salvadori

## List of Publications by Year in descending order

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130  
papers

1,967  
citations

236612

25  
h-index

344852

36  
g-index

132  
all docs

132  
docs citations

132  
times ranked

2246  
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of the elastic modulus of nanostructured gold and platinum thin films. <i>Physical Review B</i> , 2003, 67, .	1.1	104
2	PBAT/kraft lignin blend in flexible laminated food packaging: Peeling resistance and thermal degradability. <i>Polymer Testing</i> , 2018, 67, 169-176.	2.3	95
3	WC <sub>1-x</sub> Co cutting tool inserts with diamond coatings. <i>Diamond and Related Materials</i> , 1999, 8, 1913-1918.	1.8	69
4	Antiparasitic activity of nerolidol in a mouse model of schistosomiasis. <i>International Journal of Antimicrobial Agents</i> , 2017, 50, 467-472.	1.1	55
5	DLC coating roughness as a function of film thickness. <i>Surface and Coatings Technology</i> , 2006, 200, 5119-5122.	2.2	52
6	Characterization of Ultrathin Films of Cellulose Esters. <i>Cellulose</i> , 2005, 12, 351-359.	2.4	42
7	Thermoelectric effect in very thin film Pt <sub>1-x</sub> Au thermocouples. <i>Applied Physics Letters</i> , 2006, 88, 133106.	1.5	42
8	Conducting polymer formed by low energy gold ion implantation. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	42
9	Low-temperature plasma treatment of polylactic acid and PLA/HA composite material. <i>Journal of Materials Science</i> , 2019, 54, 11726-11738.	1.7	42
10	Cyclohexene-fused 1,3-oxazines with selective antibacterial and antiparasitic action and low cytotoxic effects. <i>Toxicology in Vitro</i> , 2017, 44, 273-279.	1.1	39
11	Antiparasitic activity of pipartine (piperlongumine) in a mouse model of schistosomiasis. <i>Acta Tropica</i> , 2020, 205, 105350.	0.9	37
12	Simple, safe, and economical microwave plasma-assisted chemical vapor deposition facility. <i>Review of Scientific Instruments</i> , 1992, 63, 3389-3393.	0.6	34
13	Diamond synthesis by microwave plasma chemical vapor deposition using graphite as the carbon source. <i>Applied Physics Letters</i> , 1991, 59, 2386-2388.	1.5	33
14	Characterization of nitrogen doped graphene bilayers synthesized by fast, low temperature microwave plasma-enhanced chemical vapour deposition. <i>Scientific Reports</i> , 2019, 9, 13715.	1.6	33
15	<i>In Vitro</i> and <i>In Vivo</i> Studies of Spironolactone as an Antischistosomal Drug Capable of Clinical Repurposing. <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, .	1.4	33
16	Enolase Adsorption onto Hydrophobic and Hydrophilic Solid Substrates. <i>Langmuir</i> , 2002, 18, 6914-6920.	1.6	32
17	Termination of diamond surfaces with hydrogen, oxygen and fluorine using a small, simple plasma gun. <i>Diamond and Related Materials</i> , 2010, 19, 324-328.	1.8	32
18	Diamond-like-carbon and molybdenum disulfide nanotribology studies using atomic force measurements. <i>Diamond and Related Materials</i> , 2001, 10, 1049-1052.	1.8	31

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19	Promethazine Exhibits Antiparasitic Properties <i>In Vitro</i> and Reduces Worm Burden, Egg Production, Hepatomegaly, and Splenomegaly in a Schistosomiasis Animal Model. <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, .	1.4	30
20	Brazilian red propolis exhibits antiparasitic properties in vitro and reduces worm burden and egg production in an mouse model harboring either early or chronic <i>Schistosoma mansoni</i> infection. <i>Journal of Ethnopharmacology</i> , 2021, 264, 113387.	2.0	30
21	AFM analysis of bleaching effects on dental enamel microtopography. <i>Applied Surface Science</i> , 2010, 256, 2915-2919.	3.1	29
22	Gold-implanted shallow conducting layers in polymethylmethacrylate. <i>Journal of Applied Physics</i> , 2009, 105, 064313.	1.1	28
23	H1-antihistamines as antischistosomal drugs: in vitro and in vivo studies. <i>Parasites and Vectors</i> , 2020, 13, 278.	1.0	28
24	Thermoelectric power in very thin film thermocouples: Quantum size effects. <i>Journal of Applied Physics</i> , 2006, 100, 114905.	1.1	27
25	The Effect of a Graphite Holder on Diamond Synthesis by Microwave Plasma Chemical Vapor Deposition. <i>Journal of the Electrochemical Society</i> , 1992, 139, 558-560.	1.3	26
26	Columnar CVD diamond growth structure on irregular surface substrates. <i>Diamond and Related Materials</i> , 1995, 4, 1255-1259.	1.8	26
27	Platinum and gold thin films deposited by filtered vacuum arc: morphological and crystallographic grain sizes. <i>Surface and Coatings Technology</i> , 2006, 200, 2965-2969.	2.2	26
28	Plasma-assisted chemical vapour deposition in a tunable microwave cavity. <i>Plasma Sources Science and Technology</i> , 1995, 4, 489-494.	1.3	24
29	Mechanical and thermal properties of electron beam-irradiated polypropylene reinforced with Kraft lignin. <i>Radiation Physics and Chemistry</i> , 2017, 139, 5-10.	1.4	24
30	Surface plasmon resonance of gold nanoparticles formed by cathodic arc plasma ion implantation into polymer. <i>Journal of Vacuum Science &amp; Technology B</i> , 2009, 27, 2242.	1.3	23
31	Contamination due to memory effects in filtered vacuum arc plasma deposition systems. <i>Applied Physics Letters</i> , 2002, 81, 1969-1971.	1.5	22
32	ELECTRICAL RESISTIVITY OF NANOSTRUCTURED PLATINUM AND GOLD THIN FILMS. <i>Surface Review and Letters</i> , 2004, 11, 223-227.	0.5	22
33	Grain Sizes and Surface Roughness in Platinum and Gold Thin Films. <i>Journal of Metastable and Nanocrystalline Materials</i> , 2004, 20-21, 623-628.	0.1	21
34	Effects of fluoride or nanohydroxiapatite on roughness and gloss of bleached teeth. <i>Microscopy Research and Technique</i> , 2011, 74, 1069-1075.	1.2	21
35	Tailored SERS substrates obtained with cathodic arc plasma ion implantation of gold nanoparticles into a polymer matrix. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 2050.	1.3	21
36	Surface modification by metal ion implantation forming metallic nanoparticles in an insulating matrix. <i>Applied Surface Science</i> , 2014, 310, 158-163.	3.1	21

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37	Characterization of AFM cantilevers coated with diamond-like carbon. <i>Diamond and Related Materials</i> , 2001, 10, 2190-2194.	1.8	20
38	In Vitro and In Vivo Antischistosomal Activities of Chalcones. <i>Chemistry and Biodiversity</i> , 2018, 15, e1800398.	1.0	20
39	Roughness and critical exponents analysis of diamond films by AFM imaging. <i>Thin Solid Films</i> , 1999, 354, 1-4.	0.8	19
40	Substrate for Surface-Enhanced Raman Spectroscopy Formed by Gold Nanoparticles Buried in Poly(methyl methacrylate). <i>ACS Omega</i> , 2020, 5, 10366-10373.	1.6	18
41	Antiparasitic Properties of Cardiovascular Agents against Human Intravascular Parasite <i>Schistosoma mansoni</i> . <i>Pharmaceuticals</i> , 2021, 14, 686.	1.7	18
42	Measurement of critical exponents of diamond films by atomic force microscopy imaging. <i>Physical Review E</i> , 1998, 58, 6814-6816.	0.8	17
43	Nanostructured Gold Thin Films: Young Modulus Measurement. <i>Surface Review and Letters</i> , 2003, 10, 571-575.	0.5	17
44	CONTRIBUTION OF THE MORPHOLOGICAL GRAIN SIZES TO THE ELECTRICAL RESISTIVITY OF PLATINUM AND GOLD THIN FILMS. <i>Surface Review and Letters</i> , 2004, 11, 463-467.	0.5	16
45	Design and fabrication of microcavity-array superhydrophobic surfaces. <i>Journal of Applied Physics</i> , 2010, 108, 024908.	1.1	16
46	Relationship Between Surface Topography and Energy Density Distribution of Er,Cr:YSGG Beam on Irradiated Dentin: An Atomic Force Microscopy Study. <i>Photomedicine and Laser Surgery</i> , 2011, 29, 261-269.	2.1	16
47	Disinfection of ancient paper contaminated with fungi using supercritical carbon dioxide. <i>Journal of Cultural Heritage</i> , 2018, 30, 110-116.	1.5	16
48	New evidence for Atamoxifen as an antischistosomal agent: <i>in vitro</i> , <i>in vivo</i> and target fishing studies. <i>Future Medicinal Chemistry</i> , 2021, 13, 945-957.	1.1	16
49	Nanostructured diamond-like carbon films characterization. <i>Journal of Alloys and Compounds</i> , 2010, 495, 620-624.	2.8	14
50	Diamond membranes with controlled porosity. <i>Diamond and Related Materials</i> , 1997, 6, 1824-1829.	1.8	13
51	MEASUREMENT OF CRITICAL EXPONENTS OF PLATINUM THIN FILMS. <i>Surface Review and Letters</i> , 2003, 10, 1-5.	0.5	13
52	The gas flow rate increase obtained by an oscillating piezoelectric actuator on a micronozzle. <i>Sensors and Actuators A: Physical</i> , 2008, 144, 154-160.	2.0	13
53	Electrical conductivity of platinum-implanted polymethylmethacrylate nanocomposite. <i>Journal of Applied Physics</i> , 2011, 110, 114905.	1.1	13
54	Influence of substrate surface topography in the deposition of nanostructured diamond-like carbon films by high density plasma chemical vapor deposition. <i>Surface and Coatings Technology</i> , 2009, 203, 1193-1198.	2.2	12

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55	Interface tailoring for adhesion enhancement of diamond-like carbon thin films. <i>Diamond and Related Materials</i> , 2012, 25, 8-12.	1.8	12
56	Fabrication of diamond flow controller micronozzles. <i>Diamond and Related Materials</i> , 2002, 11, 237-241.	1.8	11
57	Dentinal surface-cutting efficiency using a high-speed diamond bur, ultrasound and laser. <i>Laser Physics</i> , 2008, 18, 472-477.	0.6	11
58	Structural properties of buried conducting layers formed by very low energy ion implantation of gold into polymer. <i>Journal of Applied Physics</i> , 2009, 106, 056106.	1.1	11
59	Electrical, optical, and structural studies of shallow-buried Au-polymethylmethacrylate composite films formed by very low energy ion implantation. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2010, 28, 818-823.	0.9	11
60	Tooth Tissue Engineering: The Influence of Hydrophilic Surface on Nanocrystalline Diamond Films for Human Dental Stem Cells. <i>Tissue Engineering - Part A</i> , 2013, 19, 2537-2543.	1.6	11
61	Non-thermal plasma increase bond strength of zirconia to a resin cement. <i>Brazilian Dental Science</i> , 2018, 21, 210-219.	0.1	10
62	DYNAMIC SCALING PHENOMENA IN DIAMOND FILM GROWTH. <i>Surface Review and Letters</i> , 2001, 08, 347-351.	0.5	9
63	Small plasma source for materials application. <i>Review of Scientific Instruments</i> , 2007, 78, 086103.	0.6	9
64	Design and fabrication of superhydrophobic surfaces formed of microcavities. <i>Applied Physics Letters</i> , 2010, 96, 074101.	1.5	9
65	On the electrical conductivity of Ti-implanted alumina. <i>Journal of Applied Physics</i> , 2012, 111, 063714.	1.1	9
66	Electrical conductivity of gold-implanted alumina nanocomposite. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2013, 310, 32-36.	0.6	9
67	Diamond growth on silicon nitride by microwave plasma chemical vapor deposition. <i>Diamond and Related Materials</i> , 1992, 1, 818-823.	1.8	8
68	Scanning probe microscopy of vacuum-arc-deposited metallic and diamond-like carbon thin films. <i>Thin Solid Films</i> , 1998, 325, 19-23.	0.8	8
69	Critical exponents of diamond films: possible influence of spatially correlated noise. <i>Thin Solid Films</i> , 2000, 376, 264-266.	0.8	8
70	MEASUREMENT OF CRITICAL EXPONENTS OF NANOSTRUCTURED GOLD THIN FILMS. <i>Surface Review and Letters</i> , 2003, 10, 903-908.	0.5	8
71	ELECTRICAL RESISTIVITY OF PLATINUM AND GOLD THIN FILMS: A THEORETICAL APPROACH. <i>Surface Review and Letters</i> , 2004, 11, 283-290.	0.5	8
72	Self-neutralized ion beam. <i>Journal of Applied Physics</i> , 2011, 110, 083308.	1.1	8

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73	Annealing effects on nanostructured gold-polymethylmethacrylate composites: Small-angle x-ray scattering analysis. <i>Journal of Applied Physics</i> , 2012, 111, 104311.	1.1	8
74	Low cost ion implantation technique. <i>Applied Physics Letters</i> , 2012, 101, 224104.	1.5	8
75	Diamond flow controller microtubes. <i>Journal of Micromechanics and Microengineering</i> , 2002, 12, 108-110.	1.5	7
76	Properties of aluminum oxide thin film obtained by metal plasma immersion ion implantation and deposition after zirconium-based pretreatment. <i>Vacuum</i> , 2015, 121, 32-41.	1.6	7
77	Spontaneous wrinkling of soft matter by energetic deposition of Cr and Au. <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	7
78	Study of the correlation between flexible food packaging peeling resistance and surface composition for aluminum-metallized BOPP films aged at 60Å°C. <i>Journal of Adhesion</i> , 2017, 93, 4-17.	1.8	7
79	Porous freestanding diamond membranes with reduced pore diameter. <i>Thin Solid Films</i> , 1999, 353, 239-243.	0.8	6
80	On the origin of microcraters on the surface of ion beam bombarded plant cell walls. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2006, 243, 250-252.	0.6	6
81	Fabrication and testing of a poly(vinylidene fluoride) (PVDF) microvalve for gas flow control. <i>Smart Materials and Structures</i> , 2007, 16, 2302-2307.	1.8	6
82	Structure of disordered gold-polymer thin films using small angle x-ray scattering. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	6
83	Dimensional effects on the tunneling conductivity of gold-implanted nanocomposite films. <i>Journal of Applied Physics</i> , 2015, 117, 125302.	1.1	6
84	Reversing an S-kink effect caused by interface degradation in organic solar cells through gold ion implantation in the PEDOT:PSS layer. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	6
85	New field-emission device with improved vacuum features. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2000, 18, 1818-1822.	0.9	5
86	DIAMOND REPLICA FILMS: A GROWTH DYNAMICS ANALYSIS. <i>Surface Review and Letters</i> , 2001, 08, 291-294.	0.5	5
87	Characterization of diamond sonic micronozzles and microtube. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2003, 21, 2034.	1.6	5
88	Young Modulus Measurement of Nanostructured Metallic Thin Films. <i>Journal of Metastable and Nanocrystalline Materials</i> , 2004, 20-21, 758-762.	0.1	5
89	KINETIC SURFACE ROUGHENING OF PLATINUM AND GOLD THIN FILMS. <i>Surface Review and Letters</i> , 2005, 12, 675-679.	0.5	5
90	Atomic force microscope nanolithography of polymethylmethacrylate polymer. <i>Review of Scientific Instruments</i> , 2007, 78, 053702.	0.6	5

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91	A high voltage pulse power supply for metal plasma immersion ion implantation and deposition. Review of Scientific Instruments, 2010, 81, 124703.	0.6	5
92	Performance of an inverted ion source. Review of Scientific Instruments, 2013, 84, 023506.	0.6	5
93	Microcavity-array superhydrophobic surfaces: Limits of the model. Journal of Applied Physics, 2013, 114, 174911.	1.1	5
94	Cell growth on 3D microstructured surfaces. Materials Science and Engineering C, 2016, 63, 686-689.	3.8	5
95	Gemcitabine/Cisplatin Treatment Induces Concomitant SERTAD1, CDKN2B and GADD45A Modulation and Cellular Changes in Bladder Cancer Cells Regardless of the Site of TP53 Mutation. Pathology and Oncology Research, 2018, 24, 407-417.	0.9	5
96	Investigation of the electron emission from pores in a diamond porous membrane. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2000, 18, 2415.	1.6	4
97	CRITICAL EXPONENT MEASUREMENT OF POOR QUALITY DIAMOND FILMS. Surface Review and Letters, 2002, 09, 1409-1412.	0.5	4
98	INFLUENCE OF ELECTRON SCATTERING FROM MORPHOLOGICAL GRANULARITY AND SURFACE ROUGHNESS ON THIN FILM ELECTRICAL RESISTIVITY. Surface Review and Letters, 2007, 14, 87-91.	0.5	4
99	Anisotropic resistivity of thin films due to quantum electron scattering from anisotropic surface roughness. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2007, 25, 330-333.	0.9	4
100	Novel method for measuring nanofriction by atomic force microscope. Journal of Vacuum Science & Technology B, 2008, 26, 643-650.	1.3	4
101	Cell adhesion and growth on surfaces modified by plasma and ion implantation. Journal of Applied Physics, 2014, 115, 154701.	1.1	4
102	The effect of magnetic domain walls on the complex permeability of bulk Z-type cobalt hexaferrite along both W and Y-phases. Materials Chemistry and Physics, 2016, 170, 12-23.	2.0	4
103	Permeable diamond membranes. Diamond and Related Materials, 1995, 4, 1069-1072.	1.8	3
104	Diamond microstructures fabricated using silicon molds. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2005, 23, 1575-1578.	0.9	3
105	Gold nanoparticle formation in diamond-like carbon using two different methods: Gold ion implantation and co-deposition of gold and carbon. Journal of Applied Physics, 2012, 112, 074312.	1.1	3
106	Isotropic and anisotropic wrinkling of diamond-like carbon films on polydimethylsiloxane substrates. Journal of Applied Physics, 2013, 113, 234904.	1.1	3
107	Low-energy dc ion source for low operating pressure. Review of Scientific Instruments, 2014, 85, 083502.	0.6	3
108	The peeling resistance of flexible laminated food packaging: Roles of the NCO:OH ratio and aluminum surface aging times. Journal of Adhesion, 2018, 94, 784-798.	1.8	3

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109	Preparation and characterization of copper thin film obtained by metal plasma immersion ion implantation and deposition. <i>Thin Solid Films</i> , 2018, 649, 136-141.	0.8	3
110	Nucleation of gold nanoclusters in PMMA during energetic plasma deposition: A molecular dynamics and tfMC-Monte Carlo study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019, 112, 19-25.	1.3	3
111	On the influence of PDMS (polydimethylsiloxane) substrate surface energy in wrinkling of DLC (diamond-like carbon) thin films. <i>Journal of Applied Physics</i> , 2017, 122, 135308.	1.1	3
112	Measurement of Electrical Resistivity of Nanostructured Platinum Thin Films and Quantum Mechanical Estimates. <i>Journal of Metastable and Nanocrystalline Materials</i> , 2004, 20-21, 775-780.	0.1	2
113	Characterization of Ultrathin Films of Cellulose Esters. <i>Microscopy and Microanalysis</i> , 2005, 11, 94-97.	0.2	2
114	SURFACE-INDUCED ELECTRICAL RESISTIVITY OF CONDUCTING THIN FILMS. <i>Surface Review and Letters</i> , 2005, 12, 221-226.	0.5	2
115	ELECTRICAL RESISTIVITY OF VERY THIN METALLIC FILMS WITH ISOTROPIC AND ANISOTROPIC SURFACES. <i>Surface Review and Letters</i> , 2007, 14, 345-356.	0.5	2
116	Development of microvalves for gas flow control in micronozzles using PVDF piezoelectric polymer. <i>Journal of Physics: Conference Series</i> , 2008, 100, 052046.	0.3	2
117	Environmental effects in kelvin force microscopy of modified diamond surfaces. <i>Microscopy Research and Technique</i> , 2012, 75, 977-981.	1.2	2
118	Gold ion implantation into alumina using an "inverted ion source" configuration. <i>Review of Scientific Instruments</i> , 2014, 85, 02B502.	0.6	2
119	Nanocomposite formed by titanium ion implantation into alumina. <i>Journal of Applied Physics</i> , 2014, 116, 184306.	1.1	2
120	Quantitative Analysis of Surface Morphology and Applications. <i>Nanoscience and Technology</i> , 2009, , 153-180.	1.5	2
121	Self-screening of Langmuir-Blodgett films by a discotic micellar lyotropic liquid crystal. <i>Liquid Crystals</i> , 1998, 24, 793-798.	0.9	1
122	Cavity generation in dental enamel using a copper-HyBRID laser. <i>Journal of Materials Science: Materials in Medicine</i> , 2007, 18, 1507-1513.	1.7	1
123	CO2 Laser Glazing Treatment of a Veneering Porcelain: Effects on Porosity, Translucency, and Mechanical Properties. <i>Operative Dentistry</i> , 2015, 40, 247-254.	0.6	1
124	<sc>Self-assembled</sc> Au and Pt nanoparticles in Poly(methyl methacrylate). <i>Microscopy Research and Technique</i> , 2021, 84, 1498-1505.	1.2	1
125	Characterization of Diamond Replicas Microfabricated Using Silicon Molds. <i>Journal of Metastable and Nanocrystalline Materials</i> , 2004, 20-21, 195-200.	0.1	0
126	Critical parameter determination of sonic flow controller diamond microtubes and micronozzles. <i>Journal of Vacuum Science &amp; Technology B</i> , 2007, 25, 1804.	1.3	0



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127	Anisotropic Resistivity of PMMA Doped with Gold. ECS Transactions, 2007, 9, 123-132.	0.3	0
128	Numerical Study of a Piezoelectric Microvalve Using Continuum Methods. , 2008, , .		0
129	Zirconium Based Metal Pretreatments: A Characterization Method for Ecologically Sustainable Thin Film Surface Pretreatments. Materials Science Forum, 2016, 869, 693-698.	0.3	0
130	Determination of the composition and thickness of chromel and alumel thin films on different substrates by quantitative energy dispersive spectroscopy analysis. Microscopy Research and Technique, 2021, , .	1.2	0