Maria Luiza M Rocco

List of Publications by Year
in descending order

98 papers	1,244 citations	393982 19 h-index	500791 28 g-index
98 all docs	98 docs citations	98 times ranked	1664 citing authors

#	Article	IF	Citations
1	Unoccupied electronic structure of phthalocyanine films. Journal of Chemical Physics, 1990, 93, 6859-6864.	1.2	95
2	Electronic relaxation effects in condensed polyacenes: A high-resolution photoemission study. Journal of Chemical Physics, 2008, 129, 074702.	1.2	54
3	Glycine max meal extracts as corrosion inhibitor for mild steel in sulphuric acid solution. Journal of Materials Research and Technology, 2020, 9, 12756-12772.	2.6	43
4	Electronic structure, molecular orientation, charge transfer dynamics and solar cells performance in donor/acceptor copolymers and fullerene: Experimental and theoretical approaches. Journal of Applied Physics, 2014, 115, 134901.	1.1	36
5	X-ray photodesorption from methanol ice. Monthly Notices of the Royal Astronomical Society, 2010, 409, 1289-1296.	1.6	33
6	Carbon nanotube/polyaniline nanocomposites: Electronic structure, doping level and morphology investigations. Synthetic Metals, 2015, 203, 16-21.	2.1	32
7	Femtosecond Electron Delocalization in Poly(thiophene) Probed by Resonant Auger Spectroscopy. Journal of Physical Chemistry C, 2013, 117, 8208-8213.	1.5	30
8	Charge Transfer Dynamics and Molecular Orientation Probed by Core Electron Spectroscopies on thermal-annealed Polysilafluorene Derivative: Experimental and Theoretical Approaches. Journal of Physical Chemistry C, 2014, 118, 23863-23873.	1.5	30
9	Coreâ€electron excitations and the electronic decay of coreâ€toâ€boundâ€state transitions in condensed azabenzenes. Journal of Chemical Physics, 1989, 91, 20-28.	1.2	27
10	Comparative analysis of the energy levels of planar and core-twisted perylene bisimides in solution and solid state by UV/VIS, CV, and UPS/IPES. Applied Physics A: Materials Science and Processing, 2012, 108, 629-637.	1.1	27
11	Astrophysical Icy Surface Simulation under Energetic Particles and Radiation Field in Formic Acid. Journal of Physical Chemistry C, 2008, 112, 11954-11961.	1.5	26
12	Effects of the large distribution of CdS quantum dot sizes on the charge transfer interactions into TiO₂nanotubes for photocatalytic hydrogen generation. Nanotechnology, 2016, 27, 285401.	1.3	25
13	Melanin synthesis under oxygen pressure. Polymer International, 2016, 65, 1339-1346.	1.6	25
14	Facile room temperature synthesis of large graphene sheets from simple molecules. Chemical Science, 2018, 9, 7297-7303.	3.7	25
15	Facile synthesis of nTiO2 phase mixture: Characterization and catalytic performance. Materials Research Bulletin, 2019, 109, 60-71.	2.7	24
16	The interplay of electronic structure, molecular orientation and charge transport in organic semiconductors: Poly(thiophene) and poly(bithiophene). Organic Electronics, 2013, 14, 2980-2986.	1.4	23
17	Electronic structure and ultrafast charge transfer dynamics of phosphorous doped graphene layers on a copper substrate: a combined spectroscopic study. RSC Advances, 2015, 5, 74189-74197.	1.7	22
18	Molecular Orientation and Ultrafast Charge Transfer Dynamics Studies on the P3HT:PCBM Blend. Journal of Physical Chemistry C, 2016, 120, 25078-25082.	1.5	22

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19	On the energy gap determination of organic optoelectronic materials: the case of porphyrin derivatives. Materials Advances, 2022, 3, 1791-1803.	2.6	21
20	Photodesorption and Photostability of Acetone Ices: Relevance to Solid Phase Astrochemistry. Journal of Physical Chemistry C, 2014, 118, 6193-6200.	1.5	20
21	Structural and optical properties of soluble melanin analogues with enhanced photoluminescence quantum efficiency. Polymer International, 2018, 67, 550-556.	1.6	19
22	In-situ determination of amine/epoxy and carboxylic/epoxy exothermic heat of reaction on surface of modified carbon nanotubes and structural verification of covalent bond formation. Applied Surface Science, 2018, 436, 495-504.	3.1	18
23	Surface, interface and electronic properties of F8:F8BT polymeric thin films used for organic lightâ€emitting diode applications. Polymer International, 2018, 67, 691-699.	1.6	17
24	Valence electronic excitation of the SiF4molecule: generalized oscillator strength for the 5t2â†' 6a1transition andab initiocalculation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, 1005-1017.	0.6	16
25	Absolute differential cross sections for elastic and inelastic electron scattering from benzene with 1 kev impact energy. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, 1467-1476.	0.6	15
26	Non-thermal ion desorption from an acetonitrile (CH₃CN) astrophysical ice analogue studied by electron stimulated ion desorption. Physical Chemistry Chemical Physics, 2015, 17, 27473-27480.	1.3	15
27	Unusual catalytic activity after simultaneous immobilization of two metalloporphyrins on hydrozincite/nanocrystalline anatase. Journal of Catalysis, 2017, 352, 442-451.	3.1	15
28	An investigation on the effect of the monomer/catalyst ratio in the electronic properties of poly(3-hexylthiophene) using XPS, REELS and UPS techniques. Journal of Electron Spectroscopy and Related Phenomena, 2019, 234, 27-33.	0.8	15
29	Enhancement of conductivity and transmittance of graphene oxide/PEDOT:PSS electrodes and the evaluation of charge transfer dynamics. Journal of Applied Physics, 2019, 126, .	1.1	15
30	Molecular orientation and femtosecond charge transfer dynamics in transparent and conductive electrodes based on graphene oxide and PEDOT:PSS composites. Physical Chemistry Chemical Physics, 2019, 21, 736-743.	1.3	15
31	Theoretical Investigation on the Stability of Ionic Formic Acid Clusters. Journal of Physical Chemistry A, 2008, 112, 13382-13392.	1.1	14
32	X-ray photodesorption and proton destruction in protoplanetary discs: pyrimidine. Monthly Notices of the Royal Astronomical Society, 2013, 433, 3440-3452.	1.6	14
33	Geometry-dependent DNA-TiO2 immobilization mechanism: A spectroscopic approach. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 199, 349-355.	2.0	13
34	Zinc-modified, alumina-supported vanadium oxides as catalysts for propane oxidative dehydrogenation. Journal of Molecular Catalysis A, 2002, 178, 229-237.	4.8	12
35	Site-specific fragmentation in poly(vinyl chloride) (PVC) photoexcited around the Cl 2p edge. Chemical Physics Letters, 2004, 393, 213-216.	1.2	12
36	Fragmentation and Ion Desorption from Condensed Pyrimidine by Electron Impact: Implications for Cometary and Interstellar Heterocyclic Chemistry. Journal of Physical Chemistry C, 2014, 118, 25978-25986.	1.5	12

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37	The effect of thermal annealing on the charge transfer dynamics of a donorâ€“acceptor copolymer and fullerene: F8T2 and F8T2:PCBM. Physical Chemistry Chemical Physics, 2015, 17, 11244-11251.	1.3	12
38	Double-core-hole states in CH3CN: Pre-edge structures and chemical-shift contributions. Journal of Chemical Physics, 2018, 149, 134313.	1.2	12
39	Ultrafast interface charge transfer dynamics on P3HT/MWCNT nanocomposites probed by resonant Auger spectroscopy. RSC Advances, 2018, 8, 26416-26422.	1.7	12
40	Kinetic study of MWCNT and MWCNT@P3HT hybrid thermal decomposition under isothermal and non-isothermal conditions using the artificial neural network and isoconversional methods. Thermochimica Acta, 2019, 676, 145-154.	1.2	12
41	Configuration interaction simulation of the NEXAFS photoabsorption spectrum of naphthalene. Journal of the Brazilian Chemical Society, 2005, 16, .	0.6	12
42	Photon stimulated ion desorption studies from poly(sulphone) using synchrotron radiation in a single-bunch mode. Polymer Degradation and Stability, 2006, 91, 712-718.	2.7	11
43	Photon stimulated ion desorption from condensed thiophene photoexcited around the S1s-edge. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2006, 24, 2117-2121.	0.9	11
44	Electronic and structural properties in thermally annealed PSiF-DBT:PC71BM blends for organic photovoltaics. Thin Solid Films, 2016, 615, 165-170.	0.8	11
45	Electrical and morphological study of carbon nanotubes/polyaniline composite films: A model to explain different tunneling regimes induced by a vertical electric field. Thin Solid Films, 2017, 636, 314-324.	0.8	11
46	[1]Benzothieno[3,2-b]benzothiophene (BTBT) derivatives: Influence in the molecular orientation and charge delocalization dynamics. Materials Chemistry and Physics, 2019, 221, 295-300.	2.0	10
47	Efficient esterification reaction of palmitic acid catalyzed by WO_{3-x}/mesoporous silica. Biofuels, 2022, 13, 383-393.	1.4	10
48	Development of a new hybrid CNT-TEPA@poly(3,4-ethylenedioxythiophene-co-3-(pyrrol-1-methyl)pyridine) for application as electrode active material in supercapacitors. Polymer, 2020, 194, 122368.	1.8	10
49	Positive and negative ion desorption from PVC as studied by electron stimulated desorption. Polymer Degradation and Stability, 2007, 92, 741-746.	2.7	9
50	Additive Driven Increase in Donorâ€“Acceptor Copolymer Coupling Studied by X-ray Resonant Photoemission. Journal of Physical Chemistry C, 2017, 121, 25187-25194.	1.5	9
51	High-Resolution Near-Edge X-ray Absorption Fine Structure Study of Condensed Polyacenes. Journal of Physical Chemistry C, 2018, 122, 28692-28701.	1.5	9
52	Novel electrochemical sensor based on molecularly imprinted polymer for selective recognition of sesquiterpene Î²-caryophyllene. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 217, 271-277.	2.0	9
53	Development of nanohybrids based on carbon nanotubes/P(EDOT-co-MPy) and P(EDOT-co-PyMP) copolymers as electrode materials for aqueous supercapacitors. Electrochimica Acta, 2020, 335, 135637.	2.6	9
54	Ionic desorption in valence- and core-excited poly(vinyl chloride). Journal of Electron Spectroscopy and Related Phenomena, 2004, 141, 1-4.	0.8	8

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55	Photoresists comparative analysis using soft X-ray synchrotron radiation and time-of-flight mass spectrometry. European Polymer Journal, 2009, 45, 3347-3354.	2.6	8
56	Spectroscopic evidence of photodegradation by ultraviolet exposure of tris(8-hydroxyquinoline) aluminum (Alq3) thin films. Journal of the Brazilian Chemical Society, 2010, 21, 2367-2372.	0.6	8
57	Theoretical Investigation on the Stability of Negatively Charged Formic Acid Clusters. Journal of Physical Chemistry A, 2010, 114, 6917-6926.	1.1	8
58	Desorption from Methanol and Ethanol Ices by High Energy Electrons: Relevance to Astrochemical Models. Journal of Physical Chemistry C, 2012, 116, 25388-25394.	1.5	8
59	Interplay between Solution Processing and Electronic Structure in Metal-Free Organic Magnets Based on a TEMPO Pentacene Derivative. Journal of Physical Chemistry C, 2016, 120, 3289-3294.	1.5	8
60	Photon stimulated ion desorption from condensed thiolane photoexcited around the S 1s-edge. Journal of Electron Spectroscopy and Related Phenomena, 2007, 156-158, 115-118.	0.8	7
61	AZ-1518 Photoresist analysis with synchrotron radiation using high-resolution time-of-flight mass spectrometry. Polymer Degradation and Stability, 2007, 92, 933-938.	2.7	7
62	Low-temperature chemistry induced by cosmic rays: positive and negative ion desorption from nitrile-bearing astrophysical ice analogues. Monthly Notices of the Royal Astronomical Society, 2020, 492, 2140-2150.	1.6	7
63	New and simple mass calibration procedure for time-of-flight studies of electron stimulated desorption of ions from solid samples. Review of Scientific Instruments, 2001, 72, 2827-2828.	0.6	6
64	Photon stimulated ion desorption from intrinsically conducting polymer films based on polypyrrole doped with [Ni(dmit)2]2â^'. Journal of Electron Spectroscopy and Related Phenomena, 2007, 155, 136-140.	0.8	6
65	Photoluminescence, photoabsorption and photoemission studies of hydrazone thin film used as hole transporting material in OLEDs. Journal of the Brazilian Chemical Society, 2008, 19, 872-876.	0.6	6
66	Thermally induced anchoring of fullerene in copolymers with Si-bridging atom: Spectroscopic evidences. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 171, 376-382.	2.0	6
67	Fragment and cluster ions from gaseous and condensed pyridine produced under electron impact. Physical Chemistry Chemical Physics, 2018, 20, 25762-25771.	1.3	6
68	Femtosecond and Attosecond Electron Transfer Dynamics of Semiconductors Probed by the Core-Hole Clock Spectroscopy. Topics in Catalysis, 2019, 62, 1004-1010.	1.3	6
69	Graphene oxide as a surfactant in the nanostructuring of a conduction polymer: Effect on the electronic structure, chain orientation, and charge transfer dynamics. Organic Electronics, 2019, 75, 105440.	1.4	6
70	Anchoring conductive polymeric monomers on single-walled carbon nanotubes: towards covalently linked nanocomposites. New Journal of Chemistry, 2019, 43, 10482-10490.	1.4	6
71	Structure, Stability, and Spectroscopic Properties of Small Acetonitrile Cation Clusters. Journal of Physical Chemistry A, 2020, 124, 6845-6855.	1.1	6
72	Correlation between structural and optical characteristics of conjugated copolymers differing by a Si bridge atom. Physical Chemistry Chemical Physics, 2020, 22, 19923-19931.	1.3	6

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73	DessorÃ§Ã£o iÃ´nica e degradaÃ§Ã£o de filmes de polipirrol dopado com dodecilsulfato induzidas por elÃ©trons de alta energia. Quimica Nova, 2008, 31, 61-65.	0.3	5
74	Reprocessed poly(vinylidene fluoride): A comparative approach for mechanical recycling purposes. Materials Today Communications, 2020, 25, 101269.	0.9	5
75	Neighboring Effects on the Selective Bifunctionalization of Graphene Oxide for Nanocatalytic Organophosphate Neutralization. ACS Applied Nano Materials, 2022, 5, 6001-6012.	2.4	5
76	3d transition metal coordination on monolayer MoS₂: a facile doping method to functionalize surfaces. Nanoscale, 2022, 14, 10801-10815.	2.8	5
77	Ionic desorption in valence- and core- excited polymers: poly(vinyl chloride) and poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock	0.7	4
78	Spectroscopic Study of Reinforced Cross-Linked Polymeric Membranes for Fuel Cell Application. ACS Omega, 2020, 5, 15901-15910.	1.6	4
79	Conformational and Electron Dynamics Changes Induced by Cooling Treatment on GO:PEDOT:PSS Transparent Electrodes. Journal of Physical Chemistry C, 2020, 124, 26640-26647.	1.5	4
80	Dissociative Recombination of Acetone Fragments, Adducts, and Dimer Ions. Journal of Physical Chemistry A, 2017, 121, 4114-4122.	1.1	4
81	Electron delocalisation in conjugated sulfur heterocycles probed by resonant Auger spectroscopy. Physical Chemistry Chemical Physics, 2022, 24, 8477-8487.	1.3	4
82	Vacuum ultraviolet electron impact excitation of the styrene molecule: cross sections and oscillator strengths. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 095201.	0.6	3
83	Electron scattering from trans 1,3-butadiene molecule: cross-sections, oscillator strength and VUV photoabsorption cross-sections. European Physical Journal D, 2013, 67, 1.	0.6	3
84	Massâ€Spectrometric Observation of Counter Anion Production in SUâ€8 Exposed to UV Light and its Use for Dill C Parameter Determination. Journal of Polymer Science, Part B: Polymer Physics, 2019, 57, 967.	2.4	2
85	Morphology, Photoexcitation Dynamics and Stability of Water-Dispersed Nanoparticle Films based on Semiconducting Copolymer. Thin Solid Films, 2021, 721, 138536.	0.8	2
86	Organic Photovoltaic Solar Panels (OPV) Applied to a Tubelike Bus Station. Brazilian Journal of Physics, 2022, 52, 1.	0.7	2
87	Si 1s xâ€ray absorption spectra of epitaxial Siâ€“Ge atomic layer superlattice and alloy films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1994, 12, 1142-1147.	0.9	1
88	ExcitaÃ§Ã£o eletrÃ´nica das molÃ©culas de metacrilato de metila e estireno na regiÃ£o do ultravioleta de vÃ¡cuo. Quimica Nova, 1998, 21, 43-46.	0.3	1
89	Femtosecond Electron Delocalization in Polymer:Fullerene Blend Films. Journal of Physics: Conference Series, 2015, 635, 122003.	0.3	1
90	Towards the synthesis of poly(azafulleroid)s: main chain fullerene oligomers for organic photovoltaic devices. Polymer International, 2017, 66, 1364-1371.	1.6	1

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91	Nanohybrid material based on carbazole-thiophene-functionalized MWCNT and grafted poly(3-hexylthiophene): Preparation, characterization and spectroelectrochemistry. Synthetic Metals, 2020, 266, 116418.	2.1	1
92	Electron and Photon Stimulated Ion Desorption from Poly(thiophene). Journal of the Brazilian Chemical Society, 2013, , .	0.6	1
93	Morphology and energy transfer study between conjugated polymers thin films: experimental and theoretical approaches. Journal of Physics Condensed Matter, 2022, 34, 214010.	0.7	1
94	Organic-Inorganic Behavior of Plasma-Polymerized Hexamethyldisiloxane Films Studied by Electron and Photon Induced Ion Desorption. Plasma Processes and Polymers, 2013, 10, 634-640.	1.6	0
95	Island shape and electronic structure in diindenoperylene thin films deposited on Au(110) single crystals. Physical Chemistry Chemical Physics, 2016, 18, 13693-13700.	1.3	0
96	Photon stimulated ion desorption of condensed CO2 at ~ 85 K studied by synchrotron radiation. Brazilian Journal of Physics, 2006, 36, 975-977.	0.7	0
97	Cover Image, Volume 66, Issue 10. Polymer International, 2017, 66, i-i.	1.6	0
98	Molecular Orientation and Femtosecond Electron Transfer Dynamics in Halogenated and Nonhalogenated, Eco-Friendly Processed PTB7-Th, ITIC, PTB7-Th:ITIC, and PTB7-Th:PCBM Films. Journal of Physical Chemistry C, 0, , .	1.5	0