

# Maria Luiza M Rocco

## List of Publications by Year in descending order

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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	Efficient esterification reaction of palmitic acid catalyzed by WO <sub>3-x</sub> /mesoporous silica. <i>Biofuels</i> , 2022, 13, 383-393.	1.4	10
2	Organic Photovoltaic Solar Panels (OPV) Applied to a Tubelike Bus Station. <i>Brazilian Journal of Physics</i> , 2022, 52, 1.	0.7	2
3	Morphology and energy transfer study between conjugated polymers thin films: experimental and theoretical approaches. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 214010.	0.7	1
4	On the energy gap determination of organic optoelectronic materials: the case of porphyrin derivatives. <i>Materials Advances</i> , 2022, 3, 1791-1803.	2.6	21
5	Electron delocalisation in conjugated sulfur heterocycles probed by resonant Auger spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 8477-8487.	1.3	4
6	Neighboring Effects on the Selective Bifunctionalization of Graphene Oxide for Nanocatalytic Organophosphate Neutralization. <i>ACS Applied Nano Materials</i> , 2022, 5, 6001-6012.	2.4	5
7	3d transition metal coordination on monolayer MoS <sub>2</sub> : a facile doping method to functionalize surfaces. <i>Nanoscale</i> , 2022, 14, 10801-10815.	2.8	5
8	Morphology, Photoexcitation Dynamics and Stability of Water-Dispersed Nanoparticle Films based on Semiconducting Copolymer. <i>Thin Solid Films</i> , 2021, 721, 138536.	0.8	2
9	Development of nanohybrids based on carbon nanotubes/P(EDOT-co-MPy) and P(EDOT-co-PyMP) copolymers as electrode materials for aqueous supercapacitors. <i>Electrochimica Acta</i> , 2020, 335, 135637.	2.6	9
10	Low-temperature chemistry induced by cosmic rays: positive and negative ion desorption from nitrile-bearing astrophysical ice analogues. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 2140-2150.	1.6	7
11	Spectroscopic Study of Reinforced Cross-Linked Polymeric Membranes for Fuel Cell Application. <i>ACS Omega</i> , 2020, 5, 15901-15910.	1.6	4
12	Conformational and Electron Dynamics Changes Induced by Cooling Treatment on GO:PEDOT:PSS Transparent Electrodes. <i>Journal of Physical Chemistry C</i> , 2020, 124, 26640-26647.	1.5	4
13	Structure, Stability, and Spectroscopic Properties of Small Acetonitrile Cation Clusters. <i>Journal of Physical Chemistry A</i> , 2020, 124, 6845-6855.	1.1	6
14	Correlation between structural and optical characteristics of conjugated copolymers differing by a Si bridge atom. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 19923-19931.	1.3	6
15	Glycine max meal extracts as corrosion inhibitor for mild steel in sulphuric acid solution. <i>Journal of Materials Research and Technology</i> , 2020, 9, 12756-12772.	2.6	43
16	Nanohybrid material based on carbazole-thiophene-functionalized MWCNT and grafted poly(3-hexylthiophene): Preparation, characterization and spectroelectrochemistry. <i>Synthetic Metals</i> , 2020, 266, 116418.	2.1	1
17	Reprocessed poly(vinylidene fluoride): A comparative approach for mechanical recycling purposes. <i>Materials Today Communications</i> , 2020, 25, 101269.	0.9	5
18	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. <i>Polymer</i> , 2020, 194, 122368.	1.8	10

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19	Femtosecond and Attosecond Electron Transfer Dynamics of Semiconductors Probed by the Core-Hole Clock Spectroscopy. <i>Topics in Catalysis</i> , 2019, 62, 1004-1010.	1.3	6
20	Graphene oxide as a surfactant in the nanostructuring of a conduction polymer: Effect on the electronic structure, chain orientation, and charge transfer dynamics. <i>Organic Electronics</i> , 2019, 75, 105440.	1.4	6
21	Anchoring conductive polymeric monomers on single-walled carbon nanotubes: towards covalently linked nanocomposites. <i>New Journal of Chemistry</i> , 2019, 43, 10482-10490.	1.4	6
22	Mass Spectrometric Observation of Counter Anion Production in SU-8 Exposed to UV Light and its Use for Dill C Parameter Determination. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019, 57, 967.	2.4	2
23	An investigation on the effect of the monomer/catalyst ratio in the electronic properties of poly(3-hexylthiophene) using XPS, REELS and UPS techniques. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2019, 234, 27-33.	0.8	15
24	Kinetic study of MWCNT and MWCNT@P3HT hybrid thermal decomposition under isothermal and non-isothermal conditions using the artificial neural network and isoconversional methods. <i>Thermochimica Acta</i> , 2019, 676, 145-154.	1.2	12
25	Novel electrochemical sensor based on molecularly imprinted polymer for selective recognition of sesquiterpene $\beta$ -caryophyllene. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 217, 271-277.	2.0	9
26	Enhancement of conductivity and transmittance of graphene oxide/PEDOT:PSS electrodes and the evaluation of charge transfer dynamics. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	15
27	Facile synthesis of nTiO <sub>2</sub> phase mixture: Characterization and catalytic performance. <i>Materials Research Bulletin</i> , 2019, 109, 60-71.	2.7	24
28	Molecular orientation and femtosecond charge transfer dynamics in transparent and conductive electrodes based on graphene oxide and PEDOT:PSS composites. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 736-743.	1.3	15
29	[1]Benzothieno[3,2-b]benzothiophene (BTBT) derivatives: Influence in the molecular orientation and charge delocalization dynamics. <i>Materials Chemistry and Physics</i> , 2019, 221, 295-300.	2.0	10
30	Surface, interface and electronic properties of F8:F8BT polymeric thin films used for organic light-emitting diode applications. <i>Polymer International</i> , 2018, 67, 691-699.	1.6	17
31	Geometry-dependent DNA-TiO <sub>2</sub> immobilization mechanism: A spectroscopic approach. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 199, 349-355.	2.0	13
32	Structural and optical properties of soluble melanin analogues with enhanced photoluminescence quantum efficiency. <i>Polymer International</i> , 2018, 67, 550-556.	1.6	19
33	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. <i>Applied Surface Science</i> , 2018, 436, 495-504.	3.1	18
34	Fragment and cluster ions from gaseous and condensed pyridine produced under electron impact. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 25762-25771.	1.3	6
35	High-Resolution Near-Edge X-ray Absorption Fine Structure Study of Condensed Polyacenes. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28692-28701.	1.5	9
36	Double-core-hole states in CH <sub>3</sub> CN: Pre-edge structures and chemical-shift contributions. <i>Journal of Chemical Physics</i> , 2018, 149, 134313.	1.2	12

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37	Ultrafast interface charge transfer dynamics on P3HT/MWCNT nanocomposites probed by resonant Auger spectroscopy. <i>RSC Advances</i> , 2018, 8, 26416-26422.	1.7	12
38	Facile room temperature synthesis of large graphene sheets from simple molecules. <i>Chemical Science</i> , 2018, 9, 7297-7303.	3.7	25
39	Electrical and morphological study of carbon nanotubes/polyaniline composite films: A model to explain different tunneling regimes induced by a vertical electric field. <i>Thin Solid Films</i> , 2017, 636, 314-324.	0.8	11
40	Additive Driven Increase in Donor-Acceptor Copolymer Coupling Studied by X-ray Resonant Photoemission. <i>Journal of Physical Chemistry C</i> , 2017, 121, 25187-25194.	1.5	9
41	Towards the synthesis of poly(azafulleroid)s: main chain fullerene oligomers for organic photovoltaic devices. <i>Polymer International</i> , 2017, 66, 1364-1371.	1.6	1
42	Unusual catalytic activity after simultaneous immobilization of two metalloporphyrins on hydrozincite/nanocrystalline anatase. <i>Journal of Catalysis</i> , 2017, 352, 442-451.	3.1	15
43	Thermally induced anchoring of fullerene in copolymers with Si-bridging atom: Spectroscopic evidences. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 171, 376-382.	2.0	6
44	Dissociative Recombination of Acetone Fragments, Adducts, and Dimer Ions. <i>Journal of Physical Chemistry A</i> , 2017, 121, 4114-4122.	1.1	4
45	Cover Image, Volume 66, Issue 10. <i>Polymer International</i> , 2017, 66, i-i.	1.6	0
46	Electronic and structural properties in thermally annealed PSiF-DBT:PC71BM blends for organic photovoltaics. <i>Thin Solid Films</i> , 2016, 615, 165-170.	0.8	11
47	Effects of the large distribution of CdS quantum dot sizes on the charge transfer interactions into TiO <sub>2</sub> nanotubes for photocatalytic hydrogen generation. <i>Nanotechnology</i> , 2016, 27, 285401.	1.3	25
48	Melanin synthesis under oxygen pressure. <i>Polymer International</i> , 2016, 65, 1339-1346.	1.6	25
49	Molecular Orientation and Ultrafast Charge Transfer Dynamics Studies on the P3HT:PCBM Blend. <i>Journal of Physical Chemistry C</i> , 2016, 120, 25078-25082.	1.5	22
50	Island shape and electronic structure in diindenoperylene thin films deposited on Au(110) single crystals. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 13693-13700.	1.3	0
51	Interplay between Solution Processing and Electronic Structure in Metal-Free Organic Magnets Based on a TEMPO Pentacene Derivative. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3289-3294.	1.5	8
52	Femtosecond Electron Delocalization in Polymer:Fullerene Blend Films. <i>Journal of Physics: Conference Series</i> , 2015, 635, 122003.	0.3	1
53	Carbon nanotube/polyaniline nanocomposites: Electronic structure, doping level and morphology investigations. <i>Synthetic Metals</i> , 2015, 203, 16-21.	2.1	32
54	The effect of thermal annealing on the charge transfer dynamics of a donor-acceptor copolymer and fullerene: F8T2 and F8T2:PCBM. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 11244-11251.	1.3	12

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55	Non-thermal ion desorption from an acetonitrile (CH <sub>3</sub> CN) astrophysical ice analogue studied by electron stimulated ion desorption. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 27473-27480.	1.3	15
56	Electronic structure and ultrafast charge transfer dynamics of phosphorous doped graphene layers on a copper substrate: a combined spectroscopic study. <i>RSC Advances</i> , 2015, 5, 74189-74197.	1.7	22
57	Electronic structure, molecular orientation, charge transfer dynamics and solar cells performance in donor/acceptor copolymers and fullerene: Experimental and theoretical approaches. <i>Journal of Applied Physics</i> , 2014, 115, 134901.	1.1	36
58	Fragmentation and Ion Desorption from Condensed Pyrimidine by Electron Impact: Implications for Cometary and Interstellar Heterocyclic Chemistry. <i>Journal of Physical Chemistry C</i> , 2014, 118, 25978-25986.	1.5	12
59	Photodesorption and Photostability of Acetone Ices: Relevance to Solid Phase Astrochemistry. <i>Journal of Physical Chemistry C</i> , 2014, 118, 6193-6200.	1.5	20
60	Charge Transfer Dynamics and Molecular Orientation Probed by Core Electron Spectroscopies on thermal-annealed Polysilfluorene Derivative: Experimental and Theoretical Approaches. <i>Journal of Physical Chemistry C</i> , 2014, 118, 23863-23873.	1.5	30
61	Femtosecond Electron Delocalization in Poly(thiophene) Probed by Resonant Auger Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 8208-8213.	1.5	30
62	Electron scattering from trans 1,3-butadiene molecule: cross-sections, oscillator strength and VUV photoabsorption cross-sections. <i>European Physical Journal D</i> , 2013, 67, 1.	0.6	3
63	The interplay of electronic structure, molecular orientation and charge transport in organic semiconductors: Poly(thiophene) and poly(bithiophene). <i>Organic Electronics</i> , 2013, 14, 2980-2986.	1.4	23
64	X-ray photodesorption and proton destruction in protoplanetary discs: pyrimidine. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 433, 3440-3452.	1.6	14
65	Organic-Inorganic Behavior of Plasma-Polymerized Hexamethyldisiloxane Films Studied by Electron and Photon Induced Ion Desorption. <i>Plasma Processes and Polymers</i> , 2013, 10, 634-640.	1.6	0
66	Electron and Photon Stimulated Ion Desorption from Poly(thiophene). <i>Journal of the Brazilian Chemical Society</i> , 2013, , .	0.6	1
67	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. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 108, 629-637.	1.1	27
68	Desorption from Methanol and Ethanol Ices by High Energy Electrons: Relevance to Astrochemical Models. <i>Journal of Physical Chemistry C</i> , 2012, 116, 25388-25394.	1.5	8
69	X-ray photodesorption from methanol ice. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 409, 1289-1296.	1.6	33
70	Spectroscopic evidence of photodegradation by ultraviolet exposure of tris(8-hydroxyquinoline) aluminum (Alq3) thin films. <i>Journal of the Brazilian Chemical Society</i> , 2010, 21, 2367-2372.	0.6	8
71	Theoretical Investigation on the Stability of Negatively Charged Formic Acid Clusters. <i>Journal of Physical Chemistry A</i> , 2010, 114, 6917-6926.	1.1	8
72	Vacuum ultraviolet electron impact excitation of the styrene molecule: cross sections and oscillator strengths. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2009, 42, 095201.	0.6	3

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73	Photoresists comparative analysis using soft X-ray synchrotron radiation and time-of-flight mass spectrometry. <i>European Polymer Journal</i> , 2009, 45, 3347-3354.	2.6	8
74	Astrophysical Icy Surface Simulation under Energetic Particles and Radiation Field in Formic Acid. <i>Journal of Physical Chemistry C</i> , 2008, 112, 11954-11961.	1.5	26
75	Theoretical Investigation on the Stability of Ionic Formic Acid Clusters. <i>Journal of Physical Chemistry A</i> , 2008, 112, 13382-13392.	1.1	14
76	Electronic relaxation effects in condensed polyacenes: A high-resolution photoemission study. <i>Journal of Chemical Physics</i> , 2008, 129, 074702.	1.2	54
77	Dessorção iônica e degradação de filmes de polipirrol dopado com dodecilsulfato induzidas por elétrons de alta energia. <i>Química Nova</i> , 2008, 31, 61-65.	0.3	5
78	Photoluminescence, photoabsorption and photoemission studies of hydrazone thin film used as hole transporting material in OLEDs. <i>Journal of the Brazilian Chemical Society</i> , 2008, 19, 872-876.	0.6	6
79	Photon stimulated ion desorption from intrinsically conducting polymer films based on polypyrrole doped with [Ni(dmit) <sub>2</sub> ] <sup>2-</sup> . <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2007, 155, 136-140.	0.8	6
80	Photon stimulated ion desorption from condensed thiolane photoexcited around the S 1s-edge. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2007, 156-158, 115-118.	0.8	7
81	Positive and negative ion desorption from PVC as studied by electron stimulated desorption. <i>Polymer Degradation and Stability</i> , 2007, 92, 741-746.	2.7	9
82	AZ-1518 Photoresist analysis with synchrotron radiation using high-resolution time-of-flight mass spectrometry. <i>Polymer Degradation and Stability</i> , 2007, 92, 933-938.	2.7	7
83	Ionic desorption in valence- and core- excited polymers: poly(vinyl chloride) and poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Qverlock 10	0.7	4
84	Photon stimulated ion desorption studies from poly(sulphone) using synchrotron radiation in a single-bunch mode. <i>Polymer Degradation and Stability</i> , 2006, 91, 712-718.	2.7	11
85	Photon stimulated ion desorption from condensed thiophene photoexcited around the S1s-edge. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2006, 24, 2117-2121.	0.9	11
86	Photon stimulated ion desorption of condensed CO <sub>2</sub> at ~ 85 K studied by synchrotron radiation. <i>Brazilian Journal of Physics</i> , 2006, 36, 975-977.	0.7	0
87	Configuration interaction simulation of the NEXAFS photoabsorption spectrum of naphthalene. <i>Journal of the Brazilian Chemical Society</i> , 2005, 16, .	0.6	12
88	Absolute differential cross sections for elastic and inelastic electron scattering from benzene with 1 keV impact energy. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004, 37, 1467-1476.	0.6	15
89	Ionic desorption in valence- and core-excited poly(vinyl chloride). <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2004, 141, 1-4.	0.8	8
90	Site-specific fragmentation in poly(vinyl chloride) (PVC) photoexcited around the Cl 2p edge. <i>Chemical Physics Letters</i> , 2004, 393, 213-216.	1.2	12

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91	Zinc-modified, alumina-supported vanadium oxides as catalysts for propane oxidative dehydrogenation. <i>Journal of Molecular Catalysis A</i> , 2002, 178, 229-237.	4.8	12
92	Valence electronic excitation of the SiF <sub>4</sub> molecule: generalized oscillator strength for the 5t <sub>2g</sub> → 6a <sub>1g</sub> transition and ab initio calculation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2001, 34, 1005-1017.	0.6	16
93	New and simple mass calibration procedure for time-of-flight studies of electron stimulated desorption of ions from solid samples. <i>Review of Scientific Instruments</i> , 2001, 72, 2827-2828.	0.6	6
94	Excitação eletrônica das moléculas de metacrilato de metila e estireno na região do ultravioleta de vácuo. <i>Quimica Nova</i> , 1998, 21, 43-46.	0.3	1
95	Si 1s x-ray absorption spectra of epitaxial SiGe atomic layer superlattice and alloy films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1994, 12, 1142-1147.	0.9	1
96	Unoccupied electronic structure of phthalocyanine films. <i>Journal of Chemical Physics</i> , 1990, 93, 6859-6864.	1.2	95
97	Core-electron excitations and the electronic decay of core-bound state transitions in condensed azabenzenes. <i>Journal of Chemical Physics</i> , 1989, 91, 20-28.	1.2	27
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. <i>Journal of Physical Chemistry C</i> , 0, , .	1.5	0