Tonia M Di Palma

List of Publications by Year
in descending order

52 papers	803 citations	516710 16 h-index	552781 26 g-index
53 all docs	53 docs citations	53 times ranked	620 citing authors

#	Article	IF	Citations
1	Rechargeable Aluminumâ€Air Batteries Based on Aqueous Solidâ€State Electrolytes. Energy Technology, 2022, 10, .	3.8	7
2	Photoionization, Structures, and Energetics of Naâ€Doped Formic Acidâ€“Water Clusters. ChemPhysChem, 2022, 23, .	2.1	2
3	Rechargeable Aluminumâ€Air Batteries Based on Aqueous Solidâ€State Electrolytes. Energy Technology, 2022, 10, .	3.8	3
4	Aluminum-Air Batteries with Solid Hydrogel Electrolytes: Effect of pH Upon Cell Performance. Analytical Letters, 2021, 54, 28-39.	1.8	13
5	Dual solid electrolytes for aluminium-air batteries based on polyvinyl alcohol acidic membranes and neutral hydrogels. Journal of Solid State Electrochemistry, 2021, 25, 1207-1216.	2.5	21
6	Clusters tagged by alkali metals. AIP Conference Proceedings, 2020, , .	0.4	2
7	Cell voltage analysis of a 6 kW polymeric electrolyte fuel cell stack designed for hybrid power systems. Materials Today: Proceedings, 2019, 10, 393-399.	1.8	7
8	Physically cross-linked xanthan hydrogels as solid electrolytes for Al/air batteries. Ionics, 2019, 25, 4209-4217.	2.4	30
9	UV Photoionization of Sodiumâ€Doped Formic Acid Clusters. ChemPhysChem, 2018, 19, 2724-2734.	2.1	4
10	Solid and acid electrolytes for Al-air batteries based on xanthan-HCl hydrogels. Journal of Solid State Electrochemistry, 2018, 22, 2901-2916.	2.5	26
11	Xanthan and Î²-carrageenan based alkaline hydrogels as electrolytes for Al/air batteries. Carbohydrate Polymers, 2017, 157, 122-127.	10.2	86
12	Hydrogen purge and reactant feeding strategies in self-humidified PEM fuel cell systems. International Journal of Hydrogen Energy, 2017, 42, 1758-1765.	7.1	50
13	Encasing of Na⁺ ion in dimerâ€formed acetic acid clusters. Journal of Mass Spectrometry, 2015, 50, 1136-1143.	1.6	3
14	Inception of Acetic Acid/Water Cluster Growth in Molecular Beams. ChemPhysChem, 2015, 16, 3021-3029.	2.1	7
15	Tautomerism and proton transfer in photoionized acetaldehyde and acetaldehydeâ€“water clusters. Journal of Mass Spectrometry, 2014, 49, 700-708.	1.6	7
16	Vacuum ultraviolet photoionization and ab initio Investigations of methyl tert-butyl ether (MTBE) clusters and MTBEâ€“water clusters. Chemical Physics Letters, 2013, 561-562, 18-23.	2.6	4
17	Photoionisation and structures of jet-formed toluene clusters. Chemical Physics Letters, 2010, 495, 17-23.	2.6	14
18	Tunable single-photon ionization TOF mass spectrometry using laser-produced plasma as the table-top VUV light source. Journal of the American Society for Mass Spectrometry, 2009, 20, 2192-2198.	2.8	16

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19	Laser-plasma-based vacuum-ultraviolet light source for tunable single-photon ionization. Applied Optics, 2007, 46, 4948.	2.1	15
20	A mass spectrometric study of gasoline anti-knocking additives. International Journal of Mass Spectrometry, 2007, 262, 105-113.	1.5	6
21	Characterization of a UVâ€“VUV light source based on a gas-target ns-laser-produced plasma. Nuclear Instruments & Methods in Physics Research B, 2007, 254, 193-199.	1.4	17
22	Ion kinetic energy distributions and cross sections for the electron impact ionization of ethyl tert-butyl ether. Chemical Physics Letters, 2005, 415, 351-356.	2.6	3
23	Dissociative electron impact ionization of methyl tert-butyl ether: total ionization cross-section and kinetic energy distributions. Chemical Physics Letters, 2004, 400, 191-195.	2.6	8
24	Photochemical R2PI study of chirality and intermolecular forces in supersonic beam. International Journal of Photoenergy, 2001, 3, 223-227.	2.5	4
25	Preparation of the group III nitride thin films AlN, GaN, InN by direct and reactive pulsed laser ablation. International Journal of Photoenergy, 2001, 3, 111-121.	2.5	10
26	Laser production of gas phase complexes of metalÎ±-aminophosphonic acid mixtures and their role in chiral recognition. International Journal of Photoenergy, 2001, 3, 217-221.	2.5	4
27	R2PI Study of intermolecular hydrogen bond in solvent-free chiral complexes. Chirality, 2001, 13, 727-730.	2.6	12
28	Enantiodiscrimination of chiral Î±-aminophosphonic acids by mass spectrometry. Chirality, 2001, 13, 707-711.	2.6	36
29	Energetics of monohydrated chiral R(+)-1-phenyl-1-propanol: supersonic beam experiments and density functional calculations. Chemical Physics Letters, 2000, 316, 94-100.	2.6	34
30	Precursor of copper nitride films: laser photoionization of Cu(NH3)n clusters in a supersonic beam. Applied Surface Science, 2000, 168, 215-218.	6.1	6
31	Ablation of transition metal oxides by different laser pulse duration and thin films deposition. Applied Surface Science, 2000, 154-155, 467-472.	6.1	14
32	Laser excited charge transfer processes in oxygen organic molecules mixtures: O(3Pj) formation. Applied Surface Science, 2000, 154-155, 186-191.	6.1	13
33	Laser spectroscopy of clusters. Synthetic Metals, 2000, 115, 279-282.	3.9	2
34	Chirality and intermolecular forces: studies using R2PI experiments in supersonic beams. Physical Chemistry Chemical Physics, 2000, 2, 4139-4142.	2.8	49
35	Reactive pulsed laser ablation and deposition of thin indium tin oxide films for solid state compact sensors. Applied Surface Science, 1999, 138-139, 522-526.	6.1	28
36	Pulsed laser reactive ablation of Al in an ammonia atmosphere: photoionization thresholds and structures of Alâ€“NH3 clusters. Chemical Physics Letters, 1998, 284, 184-190.	2.6	38

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37	Photoionization thresholds and structures of third group metals clustered with ammonia. European Physical Journal D, 1998, 4, 225-229.	1.3	11
38	Molecular beam studies of ammonia clustered with metals produced by pulsed laser reactive ablation. International Journal of Mass Spectrometry, 1998, 179-180, 319-326.	1.5	6
39	Laser ablation and deposition of boron nitride in a vacuum and in the presence of N2 and NH3. Surface and Coatings Technology, 1998, 100-101, 433-436.	4.8	2
40	Anticorrosion titanium oxide coatings deposited by pulsed laser ablation. Surface and Coatings Technology, 1998, 100-101, 437-439.	4.8	15
41	Luminescence from pigments and resins for oil paintings induced by laser excitation. Applied Surface Science, 1998, 127-129, 95-100.	6.1	34
42	GaN thin film fabrication by reaction of laser evaporated Ga and GaAs in NH3 atmosphere. Applied Surface Science, 1998, 127-129, 350-354.	6.1	6
43	‹title›Laser-induced synthesis of InN in NH‹formula›‹inf›‹roman›3‹/roman›‹/inf›‹/formula› atmosphere: diagnostics of intermediates and InN thin film deposition‹/title›. , 1998, , .		0
44	Reaction of Al with ammonia by pulsed laser ablation: Optical analysis and mass spectrometry. Nuclear Instruments & Methods in Physics Research B, 1997, 122, 423-426.	1.4	8
45	Studies on nitridation of laser evaporated IIIâ€“IV group elements with gaseous ammonia and thin film deposition. Nuclear Instruments & Methods in Physics Research B, 1997, 122, 415-419.	1.4	13
46	AlN thin film deposition by pulsed laser ablation of Al in NH3. Thin Solid Films, 1997, 295, 77-82.	1.8	39
47	Pulsed laser deposition of pd on amorphous alumina substrate. Surface and Coatings Technology, 1996, 80, 216-220.	4.8	4
48	Pulsed laser ablation: reactivity of photoablated neutral particles from Feî—¸Cr alloy. Applied Surface Science, 1996, 106, 154-157.	6.1	6
49	Composition and gas dynamics of laser ablated AlN plumes. Applied Surface Science, 1995, 86, 68-73.	6.1	26
50	Pulsed laser induced ablation applied to epitaxial growth of semiconductor materials: Selenides and tellurides plume analysis. Surface and Interface Analysis, 1994, 22, 181-185.	1.8	26
51	Fluorescence analysis and growth of Biî—¸Srî—¸Caî—¸Cuî—¸O superconducting thin films. Physica C: Superconductivity and Its Applications, 1994, 235-240, 691-692.	1.2	2
52	Space charge effects in the ion time-of-flight spectra following non-resonant multiphoton ionization. Journal of Physics B: Atomic, Molecular and Optical Physics, 1992, 25, 4781-4800.	1.5	4