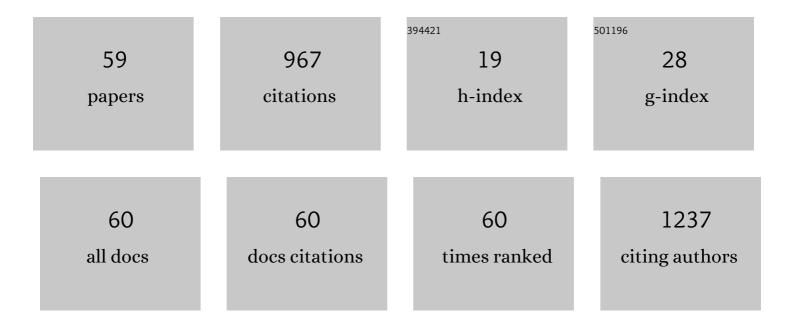
## TomÃ;Å; Homola

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The effect of secondary dopants on screenâ€printed <scp>PEDOT</scp> : <scp>PSS</scp> counterâ€electrodes for dyeâ€sensitized solar cells. Journal of Applied Polymer Science, 2022, 139, 51929.	2.6	7
2	UVA and solar driven photocatalysis with rGO/TiO2/polysiloxane for inactivation of pathogens in recirculation aquaculture systems (RAS) streams. Chemical Engineering Journal Advances, 2022, 10, 100243.	5.2	9
3	Low-Temperature Mineralisation of Titania-Siloxane Composite Layers. Catalysts, 2021, 11, 50.	3.5	3
4	Rapid Atmospheric Pressure Ambient Air Plasma Functionalization of Poly(styrene) and Poly(ethersulfone) Foils. Plasma Chemistry and Plasma Processing, 2021, 41, 841-854.	2.4	3
5	Lowâ€Temperature and Rapid Deposition of an SnO <sub>2</sub> Layer from a Colloidal Nanoparticle Dispersion for Use in Planar Perovskite Solar Cells. Energy Technology, 2021, 9, 2001076.	3.8	7
6	Non-hydrolytic sol–gel route to a family of hybrid mesoporous aluminosilicate ethanol dehydration catalysts. Journal of Materials Science, 2021, 56, 14001-14018.	3.7	3
7	Direct treatment of pepper ( <i>Capsicum annuum</i> L.) and melon ( <i>Cucumis melo</i> ) seeds by amplitude-modulated dielectric barrier discharge in air. Journal of Applied Physics, 2021, 129, .	2.5	11
8	Plasma-assisted agriculture: history, presence, and prospects—a review. European Physical Journal D, 2021, 75, 1.	1.3	28
9	The effect of rapid atmospheric plasma treatment of FTO substrates on the quality of TiO2 blocking layers for printed perovskite solar cells. Materials Science in Semiconductor Processing, 2021, 131, 105850.	4.0	6
10	Inactivation of simulated aquaculture stream bacteria at low temperature using advanced UVA- and solar-based oxidation methods. Solar Energy, 2021, 227, 477-489.	6.1	8
11	PLASMA Oxidation of printed polysiloxane layers. , 2021, , .		0
12	A New Approach to the Crystallization of Perovskite Films by Cold Hydrogen Atmospheric Pressure Plasma. Plasma Chemistry and Plasma Processing, 2020, 40, 539-548.	2.4	3
13	Surface Property Tuning of Methylammonium Lead Iodide by Plasma for Use in Planar Perovskite Solar Cells. ACS Omega, 2020, 5, 18384-18390.	3.5	7
14	Perovskite Solar Cells with Low-Cost TiO <sub>2</sub> Mesoporous Photoanodes Prepared by Rapid Low-Temperature (70 °C) Plasma Processing. ACS Applied Energy Materials, 2020, 3, 12009-12018.	5.1	21
15	A comparison of photolytic, photochemical and photocatalytic processes for disinfection of recirculation aquaculture systems (RAS) streams. Water Research, 2020, 181, 115928.	11.3	26
16	Optimization of TiO2 Mesoporous Photoanodes Prepared by Inkjet Printing and Low-Temperature Plasma Processing. Plasma Chemistry and Plasma Processing, 2020, 40, 1311-1330.	2.4	11
17	Graphene oxide sensors of high sensitivity fabricated using cold atmospheric-pressure hydrogen plasma for use in the detection of small organic molecules. Journal of Applied Physics, 2020, 128, .	2.5	7
18	Multi-hollow surface dielectric barrier discharge: an ozone generator with flexible performance and supreme efficiency. Plasma Sources Science and Technology, 2020, 29, 095014.	3.1	36

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19	ATMOSPHERIC PLASMA TREATMENT OF ITO THIN FILMS FOR RAPID MANUFACTURING OF PEROVSKITE SOLAR CELLS. , 2020, , .		2
20	Conductive silver films on paper prepared by atmospheric pressure argon plasma conversion of silver nitrate. , 2020, , .		0
21	The effect of atmospheric cold plasma cleaning of FTO substrates on the quality of TiO2 electron transport layers for printed carbon-based perovskite solar cells. , 2020, , .		1
22	LOW-TEMPERATURE HYDROGEN PLASMA REDUCTION OF GRAPHENE OXIDE COUNTER ELECTRODES FOR PRINTED DYE-SENSITIZED SOLAR CELLS. , 2020, , .		0
23	LARGE-AREA ROLL-TO-ROLL ATMOSPHERIC PLASMA TREATMENT OF NANOCELLULOSE TRANSPARENT PAPER. , 2020, , .		1
24	LOW-COST AND HIGH-SPEED ATMOSPHERIC PLASMA PROCESSING OF PEROVSKITE THIN FILMS. , 2020, , .		0
25	Structural and magnetic properties of Fe-oxide layers prepared by inkjet printing on Si-substrate. , 2020, , .		0
26	Mineralization of flexible mesoporous TiO <sub>2</sub> photoanodes using two lowâ€ŧemperature dielectric barrier discharges in ambient air. Contributions To Plasma Physics, 2019, 59, 102-110.	1.1	6
27	A Study on the Effect of Ambient Air Plasma Treatment on the Properties of Methylammonium Lead Halide Perovskite Films. Metals, 2019, 9, 991.	2.3	9
28	Solar photocatalytic disinfection using ink-jet printed composite TiO2/SiO2 thin films on flexible substrate: Applicability to drinking and marine water. Solar Energy, 2019, 191, 518-529.	6.1	19
29	Multi-hollow surface dielectric barrier discharge for plasma treatment of patterned silicon surfaces. Surfaces and Interfaces, 2019, 16, 181-187.	3.0	12
30	Efficiency of Ozone Production in Coplanar Dielectric Barrier Discharge. Plasma Chemistry and Plasma Processing, 2019, 39, 1227-1242.	2.4	28
31	The influence of curing methods on the physico-chemical properties of printed mesoporous titania patterns reinforced by methylsilica binder. Catalysis Today, 2018, 313, 26-32.	4.4	7
32	Atmospheric Dry Hydrogen Plasma Reduction of Inkjetâ€Printed Flexible Graphene Oxide Electrodes. ChemSusChem, 2018, 11, 941-947.	6.8	28
33	Activation of polycarbonate (PC) surfaces by atmospheric pressure plasma in ambient air. Polymer Testing, 2018, 67, 428-434.	4.8	23
34	Enhancement of electrical properties of flexible ITO/PET by atmospheric pressure roll-to-roll plasma. Materials Science in Semiconductor Processing, 2018, 75, 95-102.	4.0	29
35	A Comparison of the Effects of Ambient Air Plasma Generated by Volume and by Coplanar DBDs on the Surfaces of PP/AI/PET Laminated Foil. IEEE Transactions on Plasma Science, 2018, 46, 3653-3661.	1.3	10
36	Structural and Optical Properties of Luminescent Copper(I) Chloride Thin Films Deposited by Sequentially Pulsed Chemical Vapour Deposition. Coatings, 2018, 8, 369.	2.6	12

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37	Catalytic Performance of Ag2O and Ag Doped CeO2 Prepared by Atomic Layer Deposition for Diesel Soot Oxidation. Coatings, 2018, 8, 237.	2.6	19
38	Surface chemistry and initial growth of Al 2 O 3 on plasma modified PTFE studied by ALD. Surfaces and Interfaces, 2017, 6, 223-228.	3.0	10
39	An Array of Micro-hollow Surface Dielectric Barrier Discharges for Large-Area Atmospheric-Pressure Surface Treatments. Plasma Chemistry and Plasma Processing, 2017, 37, 1149-1163.	2.4	33
40	Hafnium oxide thin films as a barrier against copper diffusion in solar absorbers. Solar Energy Materials and Solar Cells, 2017, 166, 140-146.	6.2	10
41	Ambient air plasma preâ€treatment of nonâ€woven fabrics for deposition of antibacterial poly ( <scp>l</scp> â€lactide) nanoparticles. Plasma Processes and Polymers, 2017, 14, 1600231.	3.0	14
42	Low-temperature (70 °C) ambient air plasma-fabrication of inkjet-printed mesoporous TiO <sub>2</sub> flexible photoanodes. Flexible and Printed Electronics, 2017, 2, 035010.	2.7	24
43	Atomic layer deposition of cerium oxide for potential use in diesel soot combustion. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2016, 34, .	2.1	9
44	Effects of corona space charge polarity and liquid phase ion mobility on the shape and velocities of water jets in the spindle jet and precession modes of water electro-spray. Journal of Aerosol Science, 2016, 101, 196-206.	3.8	11
45	Structural and morphological characterization of Al2O3 coated macro-porous silicon by atomic layer deposition. Thin Solid Films, 2016, 616, 628-634.	1.8	15
46	Fast and Low-Temperature (70 °C) Mineralization of Inkjet Printed Mesoporous TiO <sub>2</sub> Photoanodes Using Ambient Air Plasma. ACS Applied Materials & Interfaces, 2016, 8, 33562-33571.	8.0	28
47	Efficient solar photocatalytic activity of TiO2 coated nano-porous silicon by atomic layer deposition. Superlattices and Microstructures, 2016, 97, 155-166.	3.1	26
48	Photoelectrocatalytic activity of ZnO coated nano-porous silicon by atomic layer deposition. RSC Advances, 2016, 6, 25173-25178.	3.6	22
49	Nano-modification of Si-wafer surfaces using low-cost ambient air diffuse plasma. International Journal of Nanomanufacturing, 2015, 11, 237.	0.3	1
50	Attachment of Poly( <scp>l</scp> -lactide) Nanoparticles to Plasma-Treated Non-Woven Polymer Fabrics Using Inkjet Printing. Macromolecular Bioscience, 2015, 15, 1274-1282.	4.1	12
51	Nucleation and initial growth of atomic layer deposited titanium oxide determined by spectroscopic ellipsometry and the effect of pretreatment by surface barrier discharge. Applied Surface Science, 2015, 345, 216-222.	6.1	9
52	Low temperature temporal and spatial atomic layer deposition of TiO2 films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2015, 33, .	2.1	34
53	Mechanical properties of atomic layer deposited Al2O3/ZnO nanolaminates. Surface and Coatings Technology, 2015, 284, 198-205.	4.8	16
54	Atmospheric Plasma Surface Activation of Poly(Ethylene Terephthalate) Film for Roll-To-Roll Application of Transparent Conductive Coating. Journal of Adhesion, 2014, 90, 296-309.	3.0	34

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55	Plasma Treatment of Glass Surfaces Using Diffuse Coplanar Surface Barrier Discharge in Ambient Air. Plasma Chemistry and Plasma Processing, 2013, 33, 881-894.	2.4	66
56	Atmospheric pressure diffuse plasma in ambient air for ITO surface cleaning. Applied Surface Science, 2012, 258, 7135-7139.	6.1	75
57	Activation of poly(ethylene terephthalate) surfaces by atmospheric pressure plasma. Polymer Degradation and Stability, 2012, 97, 2249-2254.	5.8	39
58	Surface analysis of poly(ethylene naphthalate) (PEN) films treated at atmospheric pressure using diffuse coplanar surface barrier discharge in air and in nitrogen. Polymer Degradation and Stability, 2012, 97, 547-553.	5.8	36
59	Activation of poly(methyl methacrylate) surfaces by atmospheric pressure plasma. Polymer Degradation and Stability, 2012, 97, 886-892.	5.8	41