Tullio Toccoli

List of Publications by Year
in descending order

40 papers	1,368 citations	430874 18 h-index	330143 37 g-index
40 all docs	40 docs citations	40 times ranked	1655 citing authors

#	Article	IF	Citations
1	Pentacene Thin Film Growth. Chemistry of Materials, 2004, 16, 4497-4508.	6.7	588
2	Hyperthermal Molecular Beam Deposition of Highly Ordered Organic Thin Films. Physical Review Letters, 2003, 90, 206101.	7.8	129
3	Controlling the Early Stages of Pentacene Growth by Supersonic Molecular Beam Deposition. Physical Review Letters, 2007, 98, 076601.	7.8	75
4	Supersonic molecular beam growth of thin films of organic materials: A novel approach to controlling the structure, morphology, and functional properties. Journal of Polymer Science, Part B: Polymer Physics, 2003, 41, 2501-2521.	2.1	45
5	Controlling field-effect mobility in pentacene-based transistors by supersonic molecular-beam deposition. Applied Physics Letters, 2006, 88, 132106.	3.3	39
6	Innovative aspects in thin film technologies for nanostructured materials in gas sensor devices. Thin Solid Films, 2003, 436, 52-63.	1.8	34
7	Morphological and optical properties of titanyl phthalocyanine films deposited by supersonic molecular beam epitaxy (SuMBE). Surface Science, 2004, 573, 346-358.	1.9	33
8	Polymorphism and Phase Control in Titanyl Phthalocyanine Thin Films Grown by Supersonic Molecular Beam Depositionâ€. Journal of Physical Chemistry A, 2007, 111, 12550-12558.	2.5	32
9	Highly ordered films of quaterthiophene grown by seeded supersonic beams. Applied Physics Letters, 2000, 76, 1845-1847.	3.3	31
10	Titanium dioxide thin films prepared by seeded supersonic beams for gas sensing applications. Sensors and Actuators B: Chemical, 2004, 100, 177-184.	7.8	24
11	Key role of molecular kinetic energy inÂearlyÂstages ofÂpentacene island growth. Applied Physics A: Materials Science and Processing, 2009, 95, 21-27.	2.3	24
12	Nanostructured TiO2 thin films prepared by supersonic beams and their application in a sensor array for the discrimination of VOC. Sensors and Actuators B: Chemical, 2003, 92, 292-302.	7.8	23
13	Growth of titanium dioxide films by cluster supersonic beams for VOC sensing applications. IEEE Sensors Journal, 2003, 3, 199-205.	4.7	23
14	Optimizing Picene Molecular Assembling by Supersonic Molecular Beam Deposition. Journal of Physical Chemistry C, 2012, 116, 24503-24511.	3.1	22
15	Versatile and Scalable Strategy To Grow Solâ€“Gel Derived 2H-MoS₂ Thin Films with Superior Electronic Properties: A Memristive Case. ACS Applied Materials & Interfaces, 2018, 10, 34392-34400.	8.0	22
16	Controlled Polymorphism in Titanyl Phthalocyanine on Mica by Hyperthermal Beams: A Micro-Raman Analysis. Journal of Physical Chemistry C, 2010, 114, 7038-7044.	3.1	21
17	Comparison of organic thin films deposited by supersonic molecular-beam epitaxy and organic molecular-beam epitaxy: The case of titanyl phthalocyanine. Surface Science, 2006, 600, 2064-2069.	1.9	19
18	Raman Identification of Polymorphs in Pentacene Films. Crystals, 2016, 6, 41.	2.2	19

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19	Supersonic seeded beams of thiophene based oligomers for preparing films of controlled quality. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1999, 79, 2157-2166.	0.6	17
20	Hybrid n-TiO2-CuPc gas sensors sensitive to reducing species, synthesized by cluster and supersonic beam deposition. Sensors and Actuators B: Chemical, 2007, 126, 214-220.	7.8	17
21	Hybrid titaniaâ€“zincphthalocyanine nanostructured multilayers with novel gas sensing properties. Sensors and Actuators B: Chemical, 2008, 130, 405-410.	7.8	17
22	SuMBE based organic thin film transistors. Synthetic Metals, 2004, 146, 291-295.	3.9	12
23	Supersonic molecular beams deposition of Î±-quaterthiophene: Enhanced growth control and devices performances. Organic Electronics, 2009, 10, 521-526.	2.6	11
24	Photophysics of Pentacene-Doped Picene Thin Films. Journal of Physical Chemistry C, 2018, 122, 16879-16886.	3.1	10
25	Spontaneous Wetting Dynamics in Perylene Diimide n-Type Thin Films Deposited at Room Temperature by Supersonic Molecular Beam. Journal of Physical Chemistry C, 2016, 120, 26076-26082.	3.1	9
26	Optical properties, morphology and structure of high quality oligothiophene films grown by supersonic seeded beams. Synthetic Metals, 2001, 122, 221-223.	3.9	8
27	OFET for gas sensing based on SuMBE grown pentacene films. Solid-State Electronics, 2008, 52, 417-421.	1.4	8
28	Growth dynamics in supersonic molecular beam deposition of pentacene sub-monolayers on SiO₂. Chemical Communications, 2014, 50, 7694-7697.	4.1	8
29	Co-deposition of phthalocyanines and fullerene by SuMBE: characterization and prototype devices. Synthetic Metals, 2003, 138, 3-7.	3.9	7
30	Molecular materials for optoelectronics by supersonic molecular beam growth: co-deposition of C60 and ZnPc. Synthetic Metals, 2001, 122, 229-231.	3.9	6
31	Role of kinetic energy of impinging molecules in the Î±-sexithiophene growth. Thin Solid Films, 2011, 519, 4110-4113.	1.8	6
32	Excitonic recombination in superstoichiometric nanocrystalline TiO2 grown by cluster precursors at room temperature. Physical Chemistry Chemical Physics, 2012, 14, 5705.	2.8	6
33	3D reconstruction of pentacene structural organization in top-contact OTFTs via resonant soft X-ray reflectivity. Applied Physics Letters, 2018, 112, .	3.3	6
34	SiC growth on Si(111) from a C₆₀ precursor: A new experimental approach based on a hyperthermal supersonic beam. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2000, 80, 635-645.	0.6	5
35	Polyelectrolytes-coated gold nanoparticles detection by PEDOT:PSS electrochemical transistors. Organic Electronics, 2012, 13, 1716-1721.	2.6	4
36	Growth by supersonic molecular-beam epitaxy of oligothiophene films with controlled properties. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 485-495.	0.6	3

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37	A New Cellsâ€Compatible Microfluidic Device for Single Channel Recordings. Electroanalysis, 2014, 26, 1653-1659.	2.9	3
38	High-quality Î±-oligothiophene films grown by supersonic seeded beams: optical, morphological, and structural characterization. , 2000, , .		2
39	Preparation of high-quality organic films by deposition and co-deposition via supersonic seeded beams. , 2001, , .		0
40	Thin films devices of organic materials by supersonic molecular beams. , 2003, 4829, 781.		0