

Massimo Tallarida

List of Publications by Year in descending order

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63
papers

1,740
citations

304743

22
h-index

276875

41
g-index

64
all docs

64
docs citations

64
times ranked

3172
citing authors

#	ARTICLE	IF	CITATIONS
1	Unification of Catalytic Water Oxidation and Oxygen Reduction Reactions: Amorphous Beat Crystalline Cobalt Iron Oxides. <i>Journal of the American Chemical Society</i> , 2014, 136, 17530-17536.	13.7	575
2	Ellipsometry and XPS comparative studies of thermal and plasma enhanced atomic layer deposited Al ₂ O ₃ -films. <i>Beilstein Journal of Nanotechnology</i> , 2013, 4, 732-742.	2.8	93
3	A facile corrosion approach to the synthesis of highly active CoO _x water oxidation catalysts. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5171-5177.	10.3	81
4	Thin manganese films on Si(111)-(7 Å ⁻¹ × 7): electronic structure and strain in silicide formation. <i>Journal Physics D: Applied Physics</i> , 2004, 37, 1083-1090.	2.8	60
5	Atomic Layer Deposition of Ruthenium Films from (Ethylcyclopentadienyl)(pyrrolyl)ruthenium and Oxygen. <i>Journal of the Electrochemical Society</i> , 2011, 158, D158.	2.9	52
6	Self-organization of Pb thin films on Cu(111) induced by quantum size effects. <i>Physical Review B</i> , 2004, 70, .	3.2	51
7	Atom-Specific Identification of Adsorbed Chiral Molecules by Photoemission. <i>Physical Review Letters</i> , 2005, 95, 107601.	7.8	45
8	Surface Functionalization of Nanostructured Fe ₂ O ₃ Polymorphs: From Design to Light-Activated Applications. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 7130-7138.	8.0	44
9	Surface chemistry and Fermi level movement during the self-cleaning of GaAs by trimethyl-aluminum. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	37
10	Substrate Reactivity Effects in the Atomic Layer Deposition of Aluminum Oxide from Trimethylaluminum on Ruthenium. <i>Chemistry of Materials</i> , 2011, 23, 3159-3168.	6.7	35
11	Surface Chemistry and Interface Formation during the Atomic Layer Deposition of Alumina from Trimethylaluminum and Water on Indium Phosphide. <i>Chemistry of Materials</i> , 2013, 25, 1078-1091.	6.7	33
12	Thermal and plasma enhanced atomic layer deposition of TiO ₂ : Comparison of spectroscopic and electric properties. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2015, 33, .	2.1	32
13	Adsorption of 2,3-butanediol on Si(1 0 0). <i>Surface Science</i> , 2004, 559, 179-185.	1.9	31
14	Synchrotron radiation x-ray photoelectron spectroscopy study on the interface chemistry of high-κ Pr _x Al _{2-x} O ₃ (x=0-2) dielectrics on TiN for dynamic random access memory applications. <i>Journal of Applied Physics</i> , 2007, 102, .	2.5	31
15	Electronic properties of atomic layer deposition films, anatase and rutile TiO ₂ studied by resonant photoemission spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 275304.	2.8	29
16	The initial atomic layer deposition of HfO ₂ •Si(001) as followed in situ by synchrotron radiation photoelectron spectroscopy. <i>Journal of Applied Physics</i> , 2008, 104, 064116.	2.5	28
17	Study of InP Surfaces after Wet Chemical Treatments. <i>ECS Journal of Solid State Science and Technology</i> , 2014, 3, N3016-N3022.	1.8	25
18	Structure and morphology of Ru films grown by atomic layer deposition from 1-ethyl-1- TM -methyl-ruthenocene. <i>Journal of Crystal Growth</i> , 2010, 312, 2025-2032.	1.5	24

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19	Capacitance and conductance versus voltage characterization of Al ₂ O ₃ layers prepared by plasma enhanced atomic layer deposition at 25°C. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2014, 32, 01A107.		24
20	Si microstructures laminated with a nanolayer of TiO ₂ as long-term stable and effective photocathodes in PEC devices. Nanoscale, 2015, 7, 7726-7733.	5.6	24
21	In situ ALD experiments with synchrotron radiation photoelectron spectroscopy. Semiconductor Science and Technology, 2012, 27, 074010.	2.0	23
22	Structural and Magnetic Studies on Iron Oxide and Iron-Magnesium Oxide Thin Films Deposited Using Ferrocene and (Dimethylaminomethyl)ferrocene Precursors. ECS Journal of Solid State Science and Technology, 2013, 2, N45-N54.	1.8	23
23	Atomic layer deposition of nanolaminate oxide films on Si. Journal of Nanoparticle Research, 2011, 13, 5975-5983.	1.9	22
24	Graphene oxide monolayers as atomically thin seeding layers for atomic layer deposition of metal oxides. Nanoscale, 2015, 7, 10781-10789.	5.6	22
25	Modification of Hematite Electronic Properties with Trimethyl Aluminum to Enhance the Efficiency of Photoelectrodes. Journal of Physical Chemistry Letters, 2014, 5, 3582-3587.	4.6	21
26	Sacrificial Self-Assembled Monolayers for the Passivation of GaAs (100) Surfaces and Interfaces. Chemistry of Materials, 2016, 28, 5689-5701.	6.7	20
27	Al-oxynitrides as a buffer layer for Pr ₂ O ₃ /SiC interfaces. Materials Science in Semiconductor Processing, 2006, 9, 945-948.	4.0	15
28	X-ray absorption and photoemission spectroscopy of 3C- and 4H-SiC. Surface Science, 2006, 600, 3879-3883.	1.9	15
29	<i>In situ</i> study of the atomic layer deposition of HfO ₂ on Si. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2012, 30, .	2.1	15
30	In situ Near-Ambient Pressure X-ray Photoelectron Spectroscopy Reveals the Influence of Photon Flux and Water on the Stability of Halide Perovskite. ChemSusChem, 2020, 13, 5722-5730.	6.8	15
31	In situ studies of the atomic layer deposition of thin HfO ₂ dielectrics by ultra high vacuum atomic force microscope. Thin Solid Films, 2010, 518, 4688-4691.	1.8	14
32	Growth of TiO ₂ with Thermal and Plasma Enhanced Atomic Layer Deposition. Journal of Nanoscience and Nanotechnology, 2011, 11, 8049-8053.	0.9	14
33	Quantum size effects in TiO ₂ thin films grown by atomic layer deposition. Beilstein Journal of Nanotechnology, 2014, 5, 77-82.	2.8	14
34	HfO ₂ -Si interface formation in atomic layer deposition films: An in situ investigation. Journal of Vacuum Science & Technology B, 2009, 27, 300.	1.3	13
35	Atomic Layer Deposition and Characterization of Erbium Oxide-Doped Zirconium Oxide Thin Films. Journal of the Electrochemical Society, 2010, 157, G193.	2.9	11
36	Enhancement of phase stability and optoelectronic performance of BiFeO ₃ thin films via cation co-substitution. Journal of Materials Chemistry C, 2021, 9, 330-339.	5.5	11

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37	New insights into water photooxidation on reductively pretreated hematite photoanodes. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 21807-21817.	2.8	10
38	Linear dichroism in ALD layers of TiO ₂ . <i>Environmental Earth Sciences</i> , 2013, 70, 3785-3795.	2.7	9
39	In-situ Studies of ALD Growth of Hafnium Oxide Films. <i>Advanced Engineering Materials</i> , 2009, 11, 265-268.	3.5	8
40	Understanding the Interface Reactions of Rutile TiO ₂ Grown by Atomic Layer Deposition on Oxidized Ruthenium. <i>ECS Journal of Solid State Science and Technology</i> , 2013, 2, N23-N27.	1.8	8
41	Amorphous Gadolinium Aluminate as a Dielectric and Sulfur for Indium Phosphide Passivation. <i>ACS Applied Electronic Materials</i> , 2019, 1, 2190-2201.	4.3	8
42	Structural and luminescence properties of HfO ₂ nanocrystals grown by atomic layer deposition on SiC/SiO ₂ core/shell nanowires. <i>Scripta Materialia</i> , 2013, 69, 744-747.	5.2	7
43	An (In Situ) ² Approach: ALD and resPES Applied to Al ₂ O ₃ , HfO ₂ , and TiO ₂ Ultrathin Films. , 2018, , 18-26.		7
44	The band gap and band offset in ultrathin oxide semiconductor heterostructures. <i>Superlattices and Microstructures</i> , 2010, 47, 369-376.	3.1	6
45	Atomic layer deposition reactor for fabrication of metal oxides. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 1287-1292.	0.8	6
46	Height distribution of atomic force microscopy images as a tool for atomic layer deposition characterization. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2013, 31, .	2.1	6
47	Study of bulk and interface defects in silicon oxide with X-ray absorption spectroscopy. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007, 144, 23-26.	3.5	5
48	Novel "In-situ ² " Approach to Modified ALD Processes for Nano-functional Metal Oxide Films. <i>ECS Transactions</i> , 2009, 25, 253-261.	0.5	5
49	On the scalability of doped hafnia thin films. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	5
50	Differential reflectivity and angle-resolved photoemission of PbS(1 0 0). <i>Surface Science</i> , 2001, 482-485, 659-663.	1.9	4
51	Reconstruction of Cleaved 6H-SiC Surfaces. <i>Materials Science Forum</i> , 2004, 457-460, 391-394.	0.3	4
52	Resonant photoemission at the oxygen K edge as a tool to study the electronic properties of defects at SiO ₂ /Si and SiO ₂ /SiC interfaces. <i>Superlattices and Microstructures</i> , 2006, 40, 393-398.	3.1	4
53	Interface Reactions in Ultrathin Functional Dielectric Films. <i>Advanced Engineering Materials</i> , 2009, 11, 269-274.	3.5	4
54	ALD on High Mobility Channels: Engineering the Proper Gate Stack Passivation. <i>ECS Transactions</i> , 2010, 33, 9-23.	0.5	4

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55	Electronic states in arsenic-decapped MnAs (11Å ⁰⁰) films grown on GaAs(001): A photoemission spectroscopy study. Applied Physics Letters, 2008, 92, 084103.	3.3	3
56	GaAs clean up studied with synchrotron radiation photoemission. IOP Conference Series: Materials Science and Engineering, 2012, 41, 012003.	0.6	2
57	Study of silicon/oxides interfaces by means of Si2p resonant photoemission. Thin Solid Films, 2008, 517, 447-449.	1.8	1
58	In situ measurements of the atomic layer deposition of high-k dielectrics by atomic force microscope for advanced microsystems. , 2009, , .		1
59	Study of InP Surfaces after Wet Chemical Treatments. ECS Transactions, 2013, 58, 297-303.	0.5	1
60	Electronic signature of MnAs phases in bare and buried films grown on GaAs(001). Journal of Vacuum Science & Technology B, 2008, 26, 1530.	1.3	0
61	Determination of interfacial layers in high-k nanomaterials by ADXPS measurements. , 2010, , .		0
62	Band alignment of high-. , 2010, , .		0
63	(Invited) III-V/Oxide Interfaces Investigated with Synchrotron Radiation Photoemission Spectroscopy. ECS Transactions, 2013, 50, 123-128.	0.5	0