

# Antônio Vallara

## List of Publications by Year in descending order

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34  
papers

181  
citations

1040056

9  
h-index

1125743

13  
g-index

34  
all docs

34  
docs citations

34  
times ranked

132  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thin-Film Characterization for High-Temperature Applications. International Journal of Thermophysics, 1998, 19, 1253-1265.	2.1	22
2	Measurement of residual stress in multicrystalline silicon ribbons by a self-calibrating infrared photoelastic method. Review of Scientific Instruments, 2005, 76, 013901.	1.3	19
3	The structure of amylose gels. Journal of Physics Condensed Matter, 1994, 6, 311-320.	1.8	15
4	Residual stress and dislocations density in silicon ribbons grown via optical zone melting. Journal of Applied Physics, 2013, 113, .	2.5	15
5	Measurement of residual stress in EFG ribbons using a phase-shifting IR photoelastic method. Solar Energy Materials and Solar Cells, 2005, 87, 311-316.	6.2	13
6	Sprayed boric acid as a dopant source for silicon ribbons. Solar Energy Materials and Solar Cells, 2007, 91, 1948-1953.	6.2	12
7	A differential mechanical profilometer for thickness measurement. Review of Scientific Instruments, 2004, 75, 5362-5363.	1.3	10
8	Optical absorption coefficient of polycrystalline silicon with very high oxygen content. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1996, 36, 73-76.	3.5	9
9	Linear electric molten zone in semiconductors. Applied Physics Letters, 2007, 90, 232111.	3.3	9
10	Understanding the sprayed boric acid method for bulk doping of silicon ribbons. Journal of Crystal Growth, 2011, 327, 221-226.	1.5	7
11	Silicon tubes by a closed molten zone: a characterisation study. Solar Energy Materials and Solar Cells, 2002, 72, 173-181.	6.2	6
12	A wave lab inside a coaxial cable. European Journal of Physics, 2004, 25, 581-591.	0.6	6
13	XRD analysis of strained Ge <sup>100</sup> /SiGe heterostructures on relaxed SiGe graded buffers grown by hybrid epitaxy on Si(001) substrates. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 124-125, 123-126.	3.5	4
14	Modeling a linear electric molten zone in a silicon ribbon. Progress in Photovoltaics: Research and Applications, 2009, 17, 365-371.	8.1	4
15	First solar cells on silicon wafers doped using sprayed boric acid. Semiconductor Science and Technology, 2010, 25, 115012.	2.0	4
16	Inline fast CVD system for continuous production of silicon ribbons for solar cells by the SDS process. , 2009, , .		3
17	Experimental characterization of a linear electric molten zone in silicon. Journal of Crystal Growth, 2012, 354, 198-201.	1.5	3
18	Inline Optical CVD for Silicon Deposition at Low Temperature and Atmospheric Pressure. Energy Procedia, 2015, 77, 551-557.	1.8	3

#	ARTICLE	IF	CITATIONS
19	CVD silicon film growth on powder substrates using an inline optical system. Energy Procedia, 2017, 124, 781-785.	1.8	3
20	Oxygen redistribution during diffusion in thin silicon layers. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1996, 36, 175-178.	3.5	2
21	High temperature sound velocity measurement with piezoelectric transducers. Review of Scientific Instruments, 1998, 69, 130-132.	1.3	2
22	Measurement of the dopant concentration in a semiconductor using the Seebeck effect. Measurement Science and Technology, 2013, 24, 055601.	2.6	2
23	Silicon film deposition on crystalline, sintered and powder substrates using an inline optical processing CVD system. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 1657-1660.	0.8	2
24	Magnetic effects in transverse elastic constants of bcc Fe(Si). Journal of Magnetism and Magnetic Materials, 1996, 157-158, 378-380.	2.3	1
25	Patterned surfaces in p-type silicon by photodefined etching. Applied Surface Science, 1999, 138-139, 330-334.	6.1	1
26	Silicon sheet from silane: first results. Solar Energy Materials and Solar Cells, 2002, 72, 209-217.	6.2	1
27	Progress on the continuous optical fast CVD system to grow silicon ribbons for solar cells via SDS process. , 2010, , .		1
28	Recrystallization of silicon polygonal tubes using an electric closed molten zone. Journal of Crystal Growth, 2011, 324, 26-30.	1.5	1
29	Silicon on Dust Substrate: The Effect of Powder Size on Ribbon Production. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1701052.	1.8	1
30	Adiabatic demagnetization technique to reach 1 K with a closed-cycle refrigerator. Cryogenics, 1987, 27, 659-660.	1.7	0
31	Large-area zinc sheet single crystals. Journal of Materials Science Letters, 1991, 10, 377-378.	0.5	0
32	Electromagnetic ribbon: proposal of a novel method for silicon sheet generation. Semiconductor Science and Technology, 1998, 13, 440-443.	2.0	0
33	Photodefined etching of n+ layers diffused on p-type silicon substrates. Applied Surface Science, 1999, 138-139, 29-34.	6.1	0
34	RBS and XRD analysis of SiGe/Ge heterostructures for p-HMOS applications. Nuclear Instruments & Methods in Physics Research B, 2006, 249, 878-881.	1.4	0