

# Constantinos Christofides

## List of Publications by Citations

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78  
papers

1,250  
citations

21  
h-index

32  
g-index

80  
ext. papers

1,343  
ext. citations

2.9  
avg, IF

4.11  
L-index

#	Paper	IF	Citations
78	Solid-state sensors for trace hydrogen gas detection. <i>Journal of Applied Physics</i> , <b>1990</b> , 68, R1-R30	2.5	182
77	Thermoelectronic-wave coupling in laser photothermal theory of semiconductors at elevated temperatures. <i>Optical Engineering</i> , <b>1997</b> , 36, 459	1.1	111
76	Influence of temperature and modulation frequency on the thermal activation coupling term in laser photothermal theory. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 1280-1285	2.5	52
75	Statistical analysis of wind speed and direction in Cyprus. <i>Solar Energy</i> , <b>1995</b> , 55, 405-414	6.8	51
74	Photothermal reflectance investigation of processed silicon. I. Room-temperature study of the induced damage and of the annealing kinetics of defects in ion-implanted wafers. <i>Journal of Applied Physics</i> , <b>1990</b> , 67, 2815-2821	2.5	44
73	Non-contacting measurements of photocarrier lifetimes in bulk- and polycrystalline thin-film Si photoconductive devices by photothermal radiometry. <i>Journal of Applied Physics</i> , <b>1996</b> , 80, 5332-5341	2.5	36
72	FULLSPECTRUM: a new PV wave making more efficient use of the solar spectrum. <i>Solar Energy Materials and Solar Cells</i> , <b>2005</b> , 87, 467-479	6.4	34
71	Photothermal reflection versus temperature: Quantitative analysis. <i>Physical Review B</i> , <b>1995</b> , 51, 14115-14123	4.3	34
70	Characterization of reflectivity inversion, $\pi$ and $2\pi$ phase transitions and nanostructure formation in hydrogen activated thin Pd films on silicon based substrates. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 3829-3840	2.5	32
69	Photothermal reflectance investigation of processed silicon. II. Signal generation and lattice temperature dependence in ion-implanted and amorphous thin layers. <i>Journal of Applied Physics</i> , <b>1990</b> , 67, 2822-2830	2.5	32
68	Raman spectroscopy and spreading resistance analysis of phosphorus implanted and annealed silicon. <i>Journal of Applied Physics</i> , <b>1994</b> , 75, 8032-8038	2.5	30
67	The role of surface vibrations and quantum confinement effect to the optical properties of very thin nanocrystalline silicon films. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 083534	2.5	29
66	Linear correlation between binding energy and Young's modulus in graphene nanoribbons. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 054318	2.5	28
65	Two-layer model for photomodulated thermorefectance of semiconductor wafers. <i>Journal of Applied Physics</i> , <b>1996</b> , 80, 1713-1725	2.5	24
64	Photothermal radiometric investigation of implanted silicon: The influence of dose and thermal annealing. <i>Applied Physics Letters</i> , <b>1996</b> , 69, 821-823	3.4	23
63	Operating characteristics and comparison of photopyroelectric and piezoelectric sensors for trace hydrogen gas detection. II. Piezoelectric quartz-crystal microbalance sensor. <i>Journal of Applied Physics</i> , <b>1989</b> , 66, 3986-3992	2.5	23
62	Laser-induced photothermal reflectance investigation of silicon damaged by arsenic ion implantation: A temperature study. <i>Applied Physics Letters</i> , <b>1989</b> , 54, 2392-2394	3.4	23

61	Carrier dynamics in EGa <sub>2</sub> O <sub>3</sub> nanowires. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 124302	2.5	22
60	Operating characteristics and comparison of photopyroelectric and piezoelectric sensors for trace hydrogen gas detection. I. Development of a new photopyroelectric sensor. <i>Journal of Applied Physics</i> , <b>1989</b> , 66, 3975-3985	2.5	22
59	Annealing kinetics of defects of ion-implanted and furnace-annealed silicon layers: thermodynamic approach. <i>Semiconductor Science and Technology</i> , <b>1992</b> , 7, 1283-1294	1.8	21
58	Infrared real-time-normalized photopyroelectric measurements of crystalline germanium: Instrumentation and spectroscopy. <i>Review of Scientific Instruments</i> , <b>1990</b> , 61, 2360-2367	1.7	21
57	Thermal wave photopyroelectric characterization of advanced materials: State of the art. <i>Critical Reviews in Solid State and Materials Sciences</i> , <b>1993</b> , 18, 113-174	10.1	18
56	Photopyroelectric (P2E) sensor for trace hydrogen gas detection. <i>Sensors and Actuators B: Chemical</i> , <b>1990</b> , 2, 79-87	8.5	17
55	Ultrafast transient spectroscopy and photoluminescence properties of V <sub>2</sub> O <sub>5</sub> nanowires. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 133112	3.4	16
54	Two layer model for photothermal radiometry applied on semiconducting thin films. <i>Journal of Applied Physics</i> , <b>1997</b> , 82, 6220-6227	2.5	15
53	Instrumentation for the monitoring of toxic pollutants in water resources by means of neural network analysis of absorption and fluorescence spectra. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 121, 231-237	8.5	15
52	Study of the annealing kinetic effect and implantation energy on phosphorus-implanted silicon wafers using spectroscopic ellipsometry. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 123514	2.5	15
51	Electronic transport investigation of arsenic-implanted silicon. II. Annealing kinetics of defects. <i>Journal of Applied Physics</i> , <b>1989</b> , 65, 4840-4844	2.5	15
50	Photophysics of PbS Quantum Dot Films Capped with Arsenic Sulfide Ligands. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1301547	21.8	14
49	A systematic investigation into the conversion of EGa <sub>2</sub> O <sub>3</sub> to GaN nanowires using NH <sub>3</sub> and H <sub>2</sub> : Effects on the photoluminescence properties. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 124319	2.5	14
48	Electronic transport investigation of arsenic-implanted silicon. I. Annealing influence on the transport coefficients. <i>Journal of Applied Physics</i> , <b>1989</b> , 65, 4832-4839	2.5	14
47	Photothermal electrostatics of the Pd-polyvinylidene fluoride photopyroelectric hydrogen gas sensor. <i>Journal of Applied Physics</i> , <b>1991</b> , 70, 4496-4504	2.5	13
46	Ultrafast Spectroscopy and Red Emission from EGa <sub>2</sub> O <sub>3</sub> /EGa <sub>2</sub> S <sub>3</sub> Nanowires. <i>Nanoscale Research Letters</i> , <b>2015</b> , 10, 1016	5	12
45	Quantitative photopyroelectric out-of-phase spectroscopy of amorphous silicon thin films deposited on crystalline silicon. <i>Canadian Journal of Physics</i> , <b>1991</b> , 69, 317-323	1.1	12
44	Photothermal reflectance investigation of implanted silicon: The influence of thermal annealing. <i>Applied Physics Letters</i> , <b>1995</b> , 66, 3346-3348	3.4	11

43	Wear of a thin surface coating: modelling and experimental investigations. <i>Computational Materials Science</i> , <b>2002</b> , 25, 61-72	3.2	10
42	Surface hydrogen/palladium studies using a new photopyroelectric detector. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1990</b> , 8, 3980-3983	2.9	10
41	Ultrafast dynamics in phosphorus-implanted silicon wafers: The effects of annealing. <i>Physical Review B</i> , <b>2002</b> , 66,	3.3	9
40	Optical absorption coefficient and non-radiative quantum efficiency photopyroelectric spectra of pure crystal silicon from a single modulation frequency. <i>Ferroelectrics</i> , <b>1991</b> , 118, 411-424	0.6	9
39	Optimization and characterization of a differential photopyroelectric spectrometer. <i>Measurement Science and Technology</i> , <b>1990</b> , 1, 1363-1370	2	9
38	Electronic transport investigations on silicon damaged by arsenic ion implantation. <i>Journal of Applied Physics</i> , <b>1986</b> , 60, 1699-1704	2.5	8
37	The role of humic substances in the formation of marble patinas under soil burial conditions. <i>Physics and Chemistry of Minerals</i> , <b>2009</b> , 36, 271-279	1.6	7
36	Hydrogen gas detection via photothermal deflection measurement. <i>Review of Scientific Instruments</i> , <b>1997</b> , 68, 3544-3552	1.7	7
35	Temperature-induced reflectivity changes and activation of hydrogen sensitive optically thin palladium films on silicon oxide. <i>Review of Scientific Instruments</i> , <b>1998</b> , 69, 3331-3338	1.7	7
34	Laser induced micro-photoluminescence of marble and application to authenticity testing of ancient objects. <i>Applied Physics A: Materials Science and Processing</i> , <b>2007</b> , 90, 285-291	2.6	7
33	Photopyroelectric detection of hydrogen/oxygen mixtures. <i>Review of Scientific Instruments</i> , <b>1993</b> , 64, 3563-3571	1.7	7
32	Optical spectroscopy on implanted and annealed silicon wafers: Plasma resonance wavelength. <i>Journal of Applied Physics</i> , <b>1994</b> , 75, 3377-3384	2.5	7
31	Photothermal radiometric and spectroscopic measurements on silicon nitride thin films. <i>Journal of Applied Physics</i> , <b>1997</b> , 82, 6215-6219	2.5	6
30	Optical characterization of varnish films by spectroscopic ellipsometry for application in artwork conservation. <i>Applied Spectroscopy</i> , <b>2005</b> , 59, 94-9	3.1	6
29	Spectroscopic ellipsometry as a tool for the optical characterization and ageing studies of varnishes used in Post-Byzantine icon reconstructions. <i>Journal of Cultural Heritage</i> , <b>2006</b> , 7, 30-36	2.9	5
28	Spatial dependence of ultrafast carrier recombination centers of phosphorus-implanted and annealed silicon wafers. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 856-858	3.4	5
27	Multi-wavelength Raman probing of phosphorus implanted silicon wafers. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1996</b> , 117, 367-374	1.2	5
26	Optimization of the Photopyroelectric Hydrogen Gas Sensor: Geometry and Temperature Measurements. <i>Japanese Journal of Applied Physics</i> , <b>1991</b> , 30, 2916-2920	1.4	5

25	Autonomous photovoltaic power system or connection with electrical grid? A preliminary feasibility study for small and isolated communities. <i>Solar Cells</i> , <b>1989</b> , 26, 165-175		5
24	Optical and structural properties of implanted Si wafers: the effects of implantation energy and subsequent isochronal annealing temperature. <i>Semiconductor Science and Technology</i> , <b>2006</b> , 21, 1059-1063	1.8	4
23	Photomodulated thermoreflectance detection of hydrogen at elevated temperatures: a detection limit. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 904-906	3.4	4
22	Photoluminescence measurements on phosphorus implanted silicon: Annealing kinetics of defects. <i>Journal of Applied Physics</i> , <b>1995</b> , 78, 796-800	2.5	4
21	Laser photothermal diagnostics of genuine and counterfeit British and United States banknotes. <i>Optical Engineering</i> , <b>1997</b> , 36, 400	1.1	3
20	Fine art painting characterization by spectroscopic ellipsometry: preliminary measurements on varnish layers. <i>Thin Solid Films</i> , <b>2004</b> , 455-456, 207-212	2.2	3
19	Finite thickness and semi-infinite photothermal radiometric models for the characterization of semiconductors. <i>Applied Physics Letters</i> , <b>1998</b> , 72, 695-697	3.4	3
18	Photomodulated thermoreflectance detection of hydrogen gas using optically thin palladium film on silicon oxide. <i>Review of Scientific Instruments</i> , <b>1998</b> , 69, 1505-1511	1.7	3
17	Photothermal measurements on amorphous thin films deposited on crystalline silicon. <i>Applied Physics Letters</i> , <b>1996</b> , 68, 538-540	3.4	3
16	Chapter 2 Transmission and Reflection Spectroscopy on Ion Implanted Semiconductors. <i>Semiconductors and Semimetals</i> , <b>1997</b> , 39-71	0.6	2
15	Infrared spectroscopy and electrical characterization of phosphorus implanted and annealed silicon layers. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1995</b> , 103, 46-55	1.2	2
14	Photopyroelectric spectroscopy in the presence of an air gap transparent phase-shifter. <i>Applied Physics B: Lasers and Optics</i> , <b>1996</b> , 62, 563-574	1.9	2
13	Progress in hydrogen detection: A new photopyroelectric device. <i>International Journal of Hydrogen Energy</i> , <b>1991</b> , 16, 577-578	6.7	2
12	Chapter 4 Photomodulated Thermoreflectance Investigation of Implanted Wafers. Annealing Kinetics of Defects. <i>Semiconductors and Semimetals</i> , <b>1997</b> , 46, 115-150	0.6	1
11	Photomodulated thermoreflectance investigation of semiconducting implanted wafers. <i>Microelectronic Engineering</i> , <b>1998</b> , 40, 251-261	2.5	1
10	Photothermal hydrogen sensor: the technique, experimental process, and physicochemical analysis. <i>Applied Physics A: Materials Science and Processing</i> , <b>2008</b> , 92, 651-658	2.6	1
9	Photomodulated thermoreflectance microscopy applied on ion-implanted materials. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2008</b> , 5, 3767-3770		1
8	High-temperature photomodulated thermoreflectance measurements on phosphorus implanted and annealed silicon wafers. <i>Journal of Applied Physics</i> , <b>2003</b> , 94, 7121-7127	2.5	1

7	Nondestructive evaluation of metal contaminated silicon wafers using radiometric measurements. <i>Journal of Applied Physics</i> , <b>1999</b> , 86, 3064-3067	2.5	1
6	Photomodulated thermorefectance investigation at elevated temperatures: plasma versus thermal effect. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 1132-1134	3.4	0
5	The Event and the Subject: The (IM)Possible Rehabilitation of Carl Schmitt. <i>Law and Critique</i> , <b>2010</b> , 21, 53-72	0.5	
4	Chapter 3 Photoluminescence and Raman Scattering of Ion Implanted Semiconductors. Influence of Annealing. <i>Semiconductors and Semimetals</i> , <b>1997</b> , 46, 73-114	0.6	
3	COMPARISON BETWEEN MINI-SOLAR ENERGY STATIONS AND CONNECTION WITH ELECTRICAL GRID: THE INFLUENCE OF DISTANCES AND DIMENSIONS <b>1992</b> , 458-463		
2	Noncontact Lifetime Reconstruction in Continuously Inhomogeneous Semiconductors: Generalized Theory and Experimental Photothermal Results for Ion-Implanted Si <b>1997</b> , 371-378		
1	Lost in the National Labyrinths of Bureaucracy: The Case of Renewable Energy Governance in Cyprus. <i>Lecture Notes in Energy</i> , <b>2013</b> , 169-181	0.4	