

P. TZANETAKIS

1. Title: Field Emission Properties of Low-Temperature, Hydrothermally Grown Tungsten Oxide

Author(s): Trapatseli, Maria; Vernardou, Dimitra; Tzanetakis, Panagiotis; et al.

Source: Acs Applied Materials & Interfaces Volume: 3 Issue: 7 Pages: 2726-2731 Published: JUL 2011

Times Cited: 5

DOI: 10.1021/am200519w

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2. Title: Metal coated silicon spike cold-electron emitters show improvement of performance with operation

Author(s): Spanakis, E.; Barberoglou, M.; Zorba, V.; et al.

Source: Applied Physics Letters Volume: 96 Issue: 3 Published: JAN 18 2010

Times Cited: 0

DOI: 10.1063/1.3291672

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3. Title: Bio-inspired water repellent surfaces produced by ultrafast laser structuring of silicon

Author(s): Barberoglou, M.; Zorba, V.; Stratakis, E.; et al.

Source: Applied Surface Science Volume: 255 Issue: 10 Pages: 5425-5429 Published: MAR 1 2009

Times Cited: 30

DOI: 10.1016/j.apsusc.2008.07.130

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4. Title: Polymer-nanotube composite mats with improved field emission performance and stability

Author(s): Stratakis, E.; Kymakis, E.; Spanakis, E.; et al.

Source: Physical Chemistry Chemical Physics Volume: 11 Issue: 4 Pages: 703-709 Published: 2009

Times Cited: 7

DOI: 10.1039/b813198h

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5. Title: Biomimetic Artificial Surfaces Quantitatively Reproduce the Water Repellency of a Lotus Leaf

Author(s): Zorba, Vassilia; Stratakis, Emmanuel; Barberoglou, Marios; et al.

Source: Advanced Materials Volume: 20 Issue: 21 Pages: 4049-+ Published: NOV 3 2008

Times Cited: 98

DOI: 10.1002/adma.200800651

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6. Title: Imaging dielectric properties of Si nanowire oxide with conductive atomic force microscopy complemented with femtosecond laser illumination

Author(s): Stratakis, Emmanuel; Misra, Nipun; Spanakis, Emmanuel; et al.

Source: Nano Letters Volume: 8 Issue: 7 Pages: 1949-1953 Published: JUL 2008

Times Cited: 10

DOI: 10.1021/nl0807171

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7. Title: Tailoring the wetting response of silicon surfaces via fs laser structuring

Author(s): Zorba, V.; Stratakis, E.; Barberoglou, M.; et al.

Source: Applied Physics a-Materials Science & Processing Volume: 93

Issue: 4 Pages: 819-825 Published: DEC 2008

Times Cited: 29

DOI: 10.1007/s00339-008-4757-y

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8. Title: Effective mobility and photocurrent in carbon nanotube-polymer composite photovoltaic cells

Author(s): Kymakis, E.; Servati, P.; Tzanetakis, P.; et al.

Source: Nanotechnology Volume: 18 Issue: 43 Published: OCT 31 2007

Times Cited: 34

DOI: 10.1088/0957-4484/18/43/435702

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9. Title: Atomic force microscopy based, multiphoton, photoelectron emission imaging

Author(s): Spanakis, E.; Chimmalgi, A.; Stratakis, E.; et al.

Source: Applied Physics Letters Volume: 89 Issue: 1 Published: JUL 3 2006

Times Cited: 5

DOI: 10.1063/1.2219120

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10. Title: Explicit empirical relation for the monthly average cell-temperature performance ratio of photovoltaic arrays

Author(s): Franghiadakis, Y.; Tzanetakis, P.

Source: Progress in Photovoltaics Volume: 14 Issue: 6 Pages: 541-551

Published: SEP 2006

Times Cited: 3

DOI: 10.1002/pip.680

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11. Title: Making silicon hydrophobic: wettability control by two-lengthscale simultaneous patterning with femtosecond laser irradiation

Author(s): Zorba, V; Persano, L; Pisignano, D; et al.

Source: Nanotechnology Volume: 17 Issue: 13 Pages: 3234-3238 Published:

JUL 14 2006

Times Cited: 71

DOI: 10.1088/0957-4484/17/13/026

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12. Title: Metastable photoexpansion of hydrogenated amorphous silicon produced by exposure to short laser pulses

Author(s): Spanakis, E; Stratakis, E; Tzanetakis, P

Source: Journal of Non-Crystalline Solids Volume: 352 Issue: 5 Pages: 429-433 Published: MAY 1 2006

Times Cited: 0

DOI: 10.1016/j.jnoncrysol.2006.01.007

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13. Title: Silicon electron emitters fabricated by ultraviolet laser pulses

Author(s): Zorba, V; Tzanetakis, P; Fotakis, C; et al.

Source: Applied Physics Letters Volume: 88 Issue: 8 Published: FEB 20 2006

Times Cited: 44

DOI: 10.1063/1.2177653

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14. Title: Optimization of ultrafast laser generated low-energy ion beams from silicon targets

Author(s): Stoian, R; Mermillod-Blondin, A; Bulgakova, NM; et al.

Source: Applied Physics Letters Volume: 87 Issue: 12 Published: SEP 19 2005

Times Cited: 14

DOI: 10.1063/1.2053355

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15. Title: Temporal pulse manipulation and consequences for ultrafast laser processing of materials

Author(s): Stoian, R; Mermillod-Blondin, A; Winkler, SW; et al.

Source: Optical Engineering Volume: 44 Issue: 5 Published: MAY 2005

Times Cited: 5

DOI: 10.1117/1.1915467

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16. Title: Influence of pulse temporal manipulation on the properties of laser ablated Si ion beams

Author(s): Koudoumas, E; Spyridaki, M; Stoian, R; et al.

Source: Thin Solid Films Volume: 453 Pages: 372-376 Published: APR 1 2004

Times Cited: 11

DOI: 10.1016/j.tsf.2003.11.111

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17. Title: Metastable volume changes of hydrogenated amorphous silicon and silicon-germanium alloys produced by exposure to light

Author(s): Tzanetakis, P

Source: Solar Energy Materials and Solar Cells Volume: 78 Issue: 1-4

Pages: 369-389 Published: JUL 2003

Times Cited: 6

DOI: 10.1016/S0927-0248(02)00443-9

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18. Title: Temporal pulse manipulation and ion generation in ultrafast laser ablation of silicon

Author(s): Spyridaki, M; Koudoumas, E; Tzanetakis, P; et al.

Source: Applied Physics Letters Volume: 83 Issue: 7 Pages: 1474-1476

Published: AUG 18 2003

Times Cited: 43

DOI: 10.1063/1.1602579

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19. Title: Light induced stress in a-Si_{1-x}Ge_x : H alloys and its correlation with the Staebler-Wronski effect

Author(s): Spanakis, E; Stratakis, E; Tzanetakis, P; et al.

Source: Journal of Non-Crystalline Solids Volume: 299 Pages: 521-524

Published: APR 1 2002

Times Cited: 10

DOI: 10.1016/S0022-3093(02)00937-7

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20. Title: Photoinduced stress in hydrogenated amorphous silicon films

Author(s): Stratakis, E; Spanakis, E; Tzanetakis, P; et al.

Source: Applied Physics Letters Volume: 80 Issue: 10 Pages: 1734-1736

Published: MAR 11 2002

Times Cited: 15

DOI: 10.1063/1.1458068

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21. Title: Correlation of the structural and optical properties of GaN grown on vicinal (001) GaAs substrates with the plasma-assisted MBE growth conditions

Author(s): Georgakilas, A; Amimer, K; Tzanetakis, P; et al.

Source: Journal of Crystal Growth Volume: 227 Pages: 410-414 Published: JUL 2001

Times Cited: 7

DOI: 10.1016/S0022-0248(01)00734-5

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22. Title: Elastic properties, intrinsic and photoinduced stress in hydrogenated amorphous-silicon thin films with different hydrogen content

Author(s): Spanakis, E; Stratakis, E; Tzanetakis, P; et al.

Source: Journal of Applied Physics Volume: 89 Issue: 8 Pages: 4294-4300

Published: APR 15 2001

Times Cited: 22

DOI: 10.1063/1.1353807

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23. Title: Evaluation of performance capabilities of emitters and detectors based on a common MQW structure

Author(s): Cengher, D; Aperathitis, E; Androulidaki, M; et al.

Source: Materials Science and Engineering B-Solid State Materials For Advanced Technology Volume: 80 Issue: 1-3 Pages: 241-244 Published: MAR 22 2001

Times Cited: 2

DOI: 10.1016/S0921-5107(00)00614-0

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24. Title: Space charges resulting from photocurrents exceeding the thermionic emission currents in a-Si : H

Author(s): Spanakis, E; Stratakis, E; Kopidakis, N; et al.

Source: Journal of Non-Crystalline Solids Volume: 266 Pages: 247-252

Published: MAY 2000

Times Cited: 1

DOI: 10.1016/S0022-3093(99)00829-7

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24-Nov-11

25. Title: Stress and internal friction associated with light-induced structural changes of a-Si : H deposited on crystalline silicon microcantilevers

Author(s): Stratakis, E; Spanakis, E; Fritzsche, H; et al.

Source: Journal of Non-Crystalline Solids Volume: 266 Pages: 506-510

Published: MAY 2000

Times Cited: 12

DOI: 10.1016/S0022-3093(99)00798-X

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26. Title: Energy distribution of ions produced by excimer-laser ablation of solid and molten targets

Author(s): Franghiadakis, Y; Fotakis, C; Tzanetakis, P

Source: Applied Physics a-Materials Science & Processing Volume: 68
Issue: 4 Pages: 391-397 Published: APR 1999
Times Cited: 36
DOI: 10.1007/s003390050911

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27. Title: Contact limitation of secondary photoconductivity in intrinsic a-Si : H

Author(s): Kopidakis, N; Tzanetakis, P; Stradins, P; et al.

Source: Journal of Non-Crystalline Solids Volume: 227 Pages: 201-205

Published: MAY 1998

Times Cited: 3

DOI: 10.1016/S0022-3093(98)00223-3

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28. Title: Monitoring of the ion energy and current density at the surface of films grown by excimer laser ablation

Author(s): Franghiadakis, Y; Fotakis, C; Tzanetakis, P

Source: Journal of Applied Physics Volume: 84 Issue: 2 Pages: 1090-1094

Published: JUL 15 1998

Times Cited: 11

DOI: 10.1063/1.368097

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29. Title: Determination of recombination and photogeneration parameters of a-Si:H using photoconductivity measurements

Author(s): Grabowski, A; Nowak, M; Tzanetakis, P

Source: Thin Solid Films Volume: 283 Issue: 1-2 Pages: 75-80 Published:

SEP 1 1996

Times Cited: 6

DOI: 10.1016/0040-6090(95)08558-0

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30. Title: Photoconductivity during 30 ns laser pulses in a-Si:H

Author(s): Tzanetakis, P; Kopidakis, N; Fritzsche, H

Source: Journal of Non-Crystalline Solids Volume: 200 Pages: 276-279

Published: MAY 1996

Times Cited: 2

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24-Nov-11

31. Title: Short-laser-pulse and steady-light induced degradation of intrinsic, p-type and compensated a-Si:H

Author(s): Tzanetakis, P; Kopidakis, N; Androulidaki, M; et al.

Source: Journal of Non-Crystalline Solids Volume: 200 Pages: 458-461

Published: MAY 1996

Times Cited: 0

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32. Title: DRIVEN-SHIELD AMPLIFIER FOR THE RECORDING OF BROAD-BAND, NANO-AMP SCALE, CURRENT TRANSIENTS FROM SOURCES LOCATED INSIDE A VACUUM CHAMBER

Author(s): MANETAKIS, K; TZANETAKIS, P

Source: Measurement Science & Technology Volume: 6 Issue: 5 Pages: 571-575 Published: MAY 1995

Times Cited: 0

DOI: 10.1088/0957-0233/6/5/018

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33. Title: LIGHT-PROPAGATION AND LOCALIZATION IN DISORDERED BINARY MULTILAYER FILMS - AN APPROXIMATE ANALYTICAL SOLUTION
Author(s): KONDILIS, A; TZANETAKIS, P
Source: Journal of the Optical Society of America a-Optics Image Science and Vision Volume: 11 Issue: 5 Pages: 1661-1666 Published: MAY 1994
Times Cited: 14
DOI: 10.1364/JOSAA.11.001661
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34. Title: PHOTOCONDUCTIVITY IN COMPENSATED A-SI-H AND THE EFFECT OF BIAS LIGHT ON THE DRIFT MOBILITY
Author(s): TZANETAKIS, P; FRITZSCHE, H; TRAN, MQ; et al.
Source: Journal of Non-Crystalline Solids Volume: 166 Pages: 607-610
Published: DEC 1993
Times Cited: 0
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35. Title: NUMERICAL-CALCULATIONS ON OPTICAL LOCALIZATION IN MULTILAYER STRUCTURES WITH RANDOM-THICKNESS LAYERS
Author(s): KONDILIS, A; TZANETAKIS, P
Source: Physical Review B Volume: 46 Issue: 23 Pages: 15426-15431
Published: DEC 15 1992
Times Cited: 23
DOI: 10.1103/PhysRevB.46.15426
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36. Title: TRANSIENT PHOTOCURRENT REGIMES IN HYDROGENATED AMORPHOUS-SILICON FILMS UNDER WEAK, SQUARE PULSE ILLUMINATION
Author(s): TZANETAKIS, P; MELL, H; FUHS, W
Source: Journal of Non-Crystalline Solids Volume: 137 Pages: 463-466
Published: DEC 1991
Times Cited: 1
DOI: 10.1016/S0022-3093(05)80155-3
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37. Title: PHOTOREFLECTANCE MEASUREMENT OF STRAIN IN EPITAXIAL GAAS ON SILICON
Author(s): DIMOULAS, A; TZANETAKIS, P; GEORGAKILAS, A; et al.
Source: Journal of Applied Physics Volume: 67 Issue: 9 Pages: 4389-4392
Published: MAY 1 1990
Times Cited: 19
DOI: 10.1063/1.344913
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38. Title: REFLECTANCE OF MULTILAYER AMORPHOUS-SEMICONDUCTOR FILMS WITH RANDOM THICKNESS LAYERS
Author(s): KONDILIS, A; TZANETAKIS, P
Source: Philosophical Magazine Letters Volume: 62 Issue: 4 Pages: 299-304
Published: OCT 1990
Times Cited: 6
DOI: 10.1080/09500839008215138
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24-Nov-11

39. Title: TIME-OF-FLIGHT MASS-SPECTROSCOPY OF IONIZED CLUSTER BEAM IN FILM DEPOSITION CONDITIONS
Author(s): FRANGHIADAKIS, Y; TZANETAKIS, P
Source: Journal of Applied Physics Volume: 68 Issue: 5 Pages: 2433-2438
Published: SEP 1 1990

Times Cited: 2

DOI: 10.1063/1.346503

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40. Title: HYDROGEN DISSOCIATION AND INCORPORATION INTO AMORPHOUS-SILICON PRODUCED BY ELECTRON-BEAM EVAPORATION

Author(s): FRANGHIADAKIS, Y; TZANETAKIS, P

Source: Journal of Vacuum Science & Technology a-Vacuum Surfaces and Films Volume: 7 Issue: 2 Pages: 136-143 Published: MAR-APR 1989

Times Cited: 6

DOI: 10.1116/1.575742

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41. Title: SCHOTTKY-BARRIER FORMATION ON ELECTRON-BEAM DEPOSITED AMORPHOUS SI1-XGEX-H ALLOYS AND AMORPHOUS (SI/SI1-XGEX)-H MODULATED STRUCTURES

Author(s): CHRISTOU, A; TZANETAKIS, P; HATZOPOULOS, Z; et al.

Source: Applied Physics Letters Volume: 48 Issue: 6 Pages: 408-410

Published: FEB 10 1986

Times Cited: 3

DOI: 10.1063/1.96513

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42. Title: RESISTANCE STUDIES OF HYDROGEN DIFFUSION IN NIOBIUM

Author(s): CLARK, EA; TZANETAKIS, P; BIRNBAUM, HK

Source: Journal De Physique Volume: 46 Issue: C-10 Pages: 83-86

Published: DEC 1985

Times Cited: 0

DOI: 10.1051/jphyscol:19851018

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43. Title: HIGH-SENSITIVITY RESISTIVITY TECHNIQUE FOR STUDIES OF DEFECT BEHAVIOR

Author(s): TZANETAKIS, P; BIRNBAUM, HK

Source: Review of Scientific Instruments Volume: 54 Issue: 3 Pages: 366-368 Published: 1983

Times Cited: 3

DOI: 10.1063/1.1137375

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44. Title: TRAPPING OF POSITRONS AT VACANCIES IN MAGNESIUM

Author(s): HAUTOJARVI, P; JOHANSSON, J; VEHANEN, A; et al.

Source: Applied Physics a-Materials Science & Processing Volume: 27

Issue: 1 Pages: 49-56 Published: 1982

Times Cited: 37

DOI: 10.1007/BF01197546

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45. Title: REACTIVITY OF MAGNESIUM TO HYDROGEN - A HIGH-PRESSURE ANALYSIS OF THE DISSOLUTION ENTHALPY

Author(s): FROMAGEAU, R; HILLAIRET, J; LIGEON, E; et al.

Source: Journal of Applied Physics Volume: 52 Issue: 12 Pages: 7191-7195

Published: 1981

Times Cited: 9

DOI: 10.1063/1.328694

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46. Title: HYDROGEN DISSOLUTION IN MAGNESIUM - A RESISTOMETRIC STUDY UNDER PRESSURE

Author(s): FROMAGEAU, R; MAIRY, C; TZANETAKIS, P

Source: Scripta Metallurgica Volume: 14 Issue: 4 Pages: 395-398

Published: 1980

Times Cited: 11

DOI: 10.1016/0036-9748(80)90333-6

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47. Title: FORMATION ENERGY OF VACANCIES IN ALUMINUM AND MAGNESIUM

Author(s): TZANETAKIS, P; HILLAIRET, J; REVEL, G

Source: Physica Status Solidi B-Basic Research Volume: 75 Issue: 2 Pages: 433-439 Published: 1976

Times Cited: 64

DOI: 10.1002/pssb.2220750205

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48. Title: PRESENCE AND MOBILITY OF HYDROGEN IN MAGNESIUM QUENCHED TO 4.2K

Author(s): TZANETAKIS, P; HILLAIRET, J; LEVY, V

Source: Scripta Metallurgica Volume: 10 Issue: 12 Pages: 1131-1133

Published: 1976

Times Cited: 7

DOI: 10.1016/0036-9748(76)90040-5

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