

# Maria Kandyla

## List of Publications by Year in descending order

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44  
papers

992  
citations

430874

18  
h-index

434195

31  
g-index

47  
all docs

47  
docs citations

47  
times ranked

1411  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Density Regular Arrays of Nanometer-Scale Rods Formed on Silicon Surfaces via Femtosecond Laser Irradiation in Water. <i>Nano Letters</i> , 2008, 8, 2087-2091.	9.1	157
2	Structural and optical properties of TiO <sub>2</sub> thin films prepared by spin coating. <i>Journal of Sol-Gel Science and Technology</i> , 2014, 72, 421-427.	2.4	82
3	Femtosecond dynamics of the laser-induced solid-to-liquid phase transition in aluminum. <i>Physical Review B</i> , 2007, 75, .	3.2	75
4	Hydrogen sensing by sol-gel grown NiO and NiO:Li thin films. <i>Journal of Alloys and Compounds</i> , 2015, 626, 87-92.	5.5	52
5	Intraband and interband optical deformation potentials in femtosecond-laser-excited $\pm\text{Te}$ . <i>Physical Review B</i> , 2007, 75, .	3.2	41
6	Dual echelon femtosecond single-shot spectroscopy. <i>Review of Scientific Instruments</i> , 2014, 85, 083115.	1.3	40
7	Laser-Microstructured ZnO/p-Si Photodetector with Enhanced and Broadband Responsivity across the Ultraviolet-Visible-Near-Infrared Range. <i>ACS Applied Electronic Materials</i> , 2020, 2, 2819-2828.	4.3	39
8	Plasmon enhanced optical tweezers with gold-coated black silicon. <i>Scientific Reports</i> , 2016, 6, 26275.	3.3	34
9	Surface functionalization of sol-gel grown NiO thin films with palladium nanoparticles for hydrogen sensing. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 3291-3298.	7.1	32
10	Pulsed laser deposition of ZnO thin films decorated with Au and Pd nanoparticles with enhanced acetone sensing performance. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	31
11	Optical control of coherent lattice vibrations in tellurium. <i>Physical Review B</i> , 2004, 70, .	3.2	30
12	Extended two-temperature model for ultrafast thermal response of band gap materials upon impulsive optical excitation. <i>Journal of Chemical Physics</i> , 2015, 143, 194705.	3.0	30
13	Nanocomposite NiO:Pd hydrogen sensors with sub-ppm detection limit and low operating temperature. <i>Materials Letters</i> , 2014, 119, 51-55.	2.6	29
14	Optimized hydrogen sensing properties of nanocomposite NiO:Au thin films grown by dual pulsed laser deposition. <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 103-109.	7.8	25
15	A Low-Cost Phase-OTDR System for Structural Health Monitoring: Design and Instrumentation. <i>Instruments</i> , 2019, 3, 46.	1.8	24
16	Hydrogen Sensing Properties of Thin NiO Films Deposited by RF Sputtering. <i>Procedia Engineering</i> , 2012, 47, 746-749.	1.2	21
17	Parametric analysis of the steady state and dynamic performance of proton exchange membrane fuel cell models. <i>Renewable Energy</i> , 2014, 71, 23-31.	8.9	20
18	Near-field enhanced optical tweezers utilizing femtosecond-laser nanostructured substrates. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	19

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19	Real-Time Observation of a Coherent Lattice Transformation into a High-Symmetry Phase. <i>Physical Review X</i> , 2018, 8, .	8.9	19
20	Properties of pulsed laser deposited nanocomposite NiO:Au thin films for gas sensing applications. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 107, 899-904.	2.3	17
21	Surface-Enhanced Raman Spectroscopy of Graphene Integrated in Plasmonic Silicon Platforms with Three-Dimensional Nanotopography. <i>Journal of Physical Chemistry C</i> , 2019, 123, 3076-3087.	3.1	16
22	Nanocomposite NiO:Au hydrogen sensors with high sensitivity and low operating temperature. <i>Materials Research Bulletin</i> , 2014, 49, 552-559.	5.2	15
23	Carrier confinement and bond softening in photoexcited bismuth films. <i>Physical Review B</i> , 2015, 92, .	3.2	15
24	Optical tweezers with enhanced efficiency based on laser-structured substrates. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	14
25	Thin films of PS/PS- $\epsilon$ -pnipam and ps/pnipam polymer blends with tunable wettability. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019, 57, 670-679.	2.1	14
26	Laser induced forward transfer of conducting polymers. <i>Opto-electronics Review</i> , 2010, 18, .	2.4	13
27	Photocatalytic Properties of Titanium Dioxide Thin Films Doped with Noble Metals (Ag, Au, Pd, and Pt). <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800023.	1.8	13
28	Broadband wavelength-selective isotype heterojunction n+-ZnO/n-Si photodetector with variable polarity. <i>Journal of Alloys and Compounds</i> , 2022, 903, 163836.	5.5	12
29	Functional surfaces of laser-microstructured silicon coated with thermoresponsive PS/PNIPAM polymer blends: Switching reversibly between hydrophilicity and hydrophobicity. <i>Applied Surface Science</i> , 2020, 527, 146841.	6.1	10
30	Laser studies of metallic artworks. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 101, 349-355.	2.3	9
31	Direct laser printing of thin-film polyaniline devices. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 110, 623-628.	2.3	9
32	Scalable fabrication of nanostructured p-Si/n-ZnO heterojunctions by femtosecond-laser processing. <i>Materials Research Express</i> , 2014, 1, 045902.	1.6	8
33	Effect of CdO ratios on the structural and optical properties of CdO- $\epsilon$ -TiO <sub>2</sub> nanocomposite thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 3387-3396.	2.2	8
34	Turning Aluminum Liquid in Picoseconds. <i>Optics and Photonics News</i> , 2007, 18, 44.	0.5	6
35	Publisher's Note: Femtosecond dynamics of the laser-induced solid-to-liquid phase transition in aluminum [ <i>Phys. Rev. B</i> 75, 214107 (2007)]. <i>Physical Review B</i> , 2007, 75, .	3.2	4
36	Comparative Assessment and Experimental Validation of a Prototype Phase-Optical Time-Domain Reflectometer for Distributed Structural Health Monitoring. <i>Journal of Sensors</i> , 2022, 2022, 1-23.	1.1	3

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37	Ultrafast dynamics of bis (n-butylimido) perylene thin films excited by two-photon absorption. Applied Physics A: Materials Science and Processing, 2009, 96, 369-372.	2.3	2
38	Comparative evaluation of ultrafast laser beam interaction with the silvering in late Roman coins. Proceedings of SPIE, 2009, , .	0.8	1
39	Effects of hydrogen pressure on hydrogenated amorphous silicon thin films prepared by low-temperature reactive pulsed laser deposition. Physica Status Solidi C: Current Topics in Solid State Physics, 2016, 14, 1600088.	0.8	1
40	Transient picometer atomic displacements in $\hat{1}\pm$ -Te photoexcited by femtosecond laser pulses. , 2007, , .		0
41	Ultrafast reflectivity dynamics in bis (n-butylimido) perylene thin films. , 2008, , .		0
42	Hydrogenated amorphous silicon films grown by pulsed laser deposition. , 2013, , .		0
43	Optimized hydrogen sensing properties of PLD-grown nanocomposite NiO:Au and NiO:Pd thin films at ppb-concentration levels. , 2013, , .		0
44	Laser-structured ZnO/p-Si Photodetector with Enhanced and Broadband Responsivity. , 2021, , .		0