

# Nihan Kosku Perkgoz

## List of Publications by Citations

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42  
papers

965  
citations

16  
h-index

30  
g-index

45  
ext. papers

1,135  
ext. citations

4.4  
avg, IF

4.34  
L-index

#	Paper	IF	Citations
42	Vibrational and mechanical properties of single layer MXene structures: a first-principles investigation. <i>Nanotechnology</i> , <b>2016</b> , 27, 335702	3.4	138
41	Metamaterial-based wireless strain sensors. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 011106	3.4	119
40	Flexible metamaterials for wireless strain sensing. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 181105	3.4	86
39	Nested Metamaterials for Wireless Strain Sensing. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2010</b> , 16, 450-458	3.8	75
38	White emitting CdS quantum dot nanoluminophores hybridized on near-ultraviolet LEDs for high-quality white light generation and tuning. <i>New Journal of Physics</i> , <b>2008</b> , 10, 023026	2.9	52
37	Vibrational and thermodynamic properties of $\sqrt{3} \times \sqrt{3}$ and 6, 6, 12-graphyne structures. <i>Nanotechnology</i> , <b>2014</b> , 25, 185701	3.4	51
36	Metamaterial based telemetric strain sensing in different materials. <i>Optics Express</i> , <b>2010</b> , 18, 5000-7	3.3	43
35	CVD growth of monolayer MoS <sub>2</sub> : Role of growth zone configuration and precursors ratio. <i>Japanese Journal of Applied Physics</i> , <b>2017</b> , 56, 06GG05	1.4	40
34	Bio-implantable passive on-chip RF-MEMS strain sensing resonators for orthopaedic applications. <i>Journal of Micromechanics and Microengineering</i> , <b>2008</b> , 18, 115017	2	37
33	Investigation of Single-Wall MoS Monolayer Flakes Grown by Chemical Vapor Deposition. <i>Nano-Micro Letters</i> , <b>2016</b> , 8, 70-79	19.5	27
32	Near-Unity Efficiency Energy Transfer from Colloidal Semiconductor Quantum Wells of CdSe/CdS Nanoplatelets to a Monolayer of MoS. <i>ACS Nano</i> , <b>2018</b> , 12, 8547-8554	16.7	25
31	A distinct correlation between the vibrational and thermal transport properties of group VA monolayer crystals. <i>Nanoscale</i> , <b>2018</b> , 10, 7803-7812	7.7	23
30	High-rate deposition of highly crystallized silicon films from inductively coupled plasma. <i>Thin Solid Films</i> , <b>2003</b> , 435, 39-43	2.2	21
29	Insights into the high-rate growth of highly crystallized silicon films from inductively coupled plasma of H <sub>2</sub> -diluted SiH <sub>4</sub> . <i>Thin Solid Films</i> , <b>2006</b> , 511-512, 265-270	2.2	20
28	Photocatalytic hybrid nanocomposites of metal oxide nanoparticles enhanced towards the visible spectral range. <i>Applied Catalysis B: Environmental</i> , <b>2011</b> , 105, 77-85	21.8	18
27	Influence of substrate dc bias on crystallinity of silicon films grown at a high rate from inductively-coupled plasma CVD. <i>Applied Surface Science</i> , <b>2005</b> , 244, 39-42	6.7	17
26	CVD growth of monolayer WS <sub>2</sub> through controlled seed formation and vapor density. <i>Materials Science in Semiconductor Processing</i> , <b>2019</b> , 93, 158-163	4.3	15

25	Long-Term Stability Control of CVD-Grown Monolayer MoS <sub>2</sub> . <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2019</b> , 13, 1800687	2.5	15
24	Glass-assisted CVD growth of large-area MoS <sub>2</sub> , WS <sub>2</sub> and MoSe <sub>2</sub> monolayers on Si/SiO <sub>2</sub> substrate. <i>Materials Science in Semiconductor Processing</i> , <b>2020</b> , 105, 104679	4.3	15
23	<b>2010</b> ,		14
22	Layer and size distribution control of CVD-grown 2D MoS <sub>2</sub> using ALD-deposited MoO <sub>3</sub> structures as the precursor. <i>Materials Science in Semiconductor Processing</i> , <b>2020</b> , 108, 104880	4.3	14
21	CVD grown 2D MoS <sub>2</sub> layers: A photoluminescence and fluorescence lifetime imaging study. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2016</b> , 10, 792-796	2.5	14
20	Low Loss Atomic Layer Deposited Al <sub>2</sub> O <sub>3</sub> Waveguides for Applications in On-Chip Optical Amplifiers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2018</b> , 24, 1-8	3.8	12
19	A comparative device performance assesment of CVD grown MoS <sub>2</sub> and WS <sub>2</sub> monolayers. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 8785-8792	2.1	12
18	. <i>IEEE Transactions on Electron Devices</i> , <b>2008</b> , 55, 3459-3466	2.9	10
17	Nanotechnological Advances in Catalytic Thin Films for Green Large-Area Surfaces. <i>Journal of Nanomaterials</i> , <b>2015</b> , 2015, 1-20	3.2	7
16	Circular High-Q Resonating Isotropic Strain Sensors with Large Shift of Resonance Frequency under Stress. <i>Sensors</i> , <b>2009</b> , 9, 9444-51	3.8	7
15	The application of very high frequency inductively coupled plasma to high-rate growth of microcrystalline silicon films. <i>Journal of Non-Crystalline Solids</i> , <b>2006</b> , 352, 911-914	3.9	7
14	RF-MEMS Load Sensors with Enhanced Q-factor and Sensitivity in a Suspended Architecture. <i>Microelectronic Engineering</i> , <b>2011</b> , 88, 247-253	2.5	6
13	Thermal Conductivity Suppression in Nanostructured Silicon and Germanium Nanowires. <i>Journal of Electronic Materials</i> , <b>2016</b> , 45, 1594-1600	1.9	4
12	Comparative study of optically activated nanocomposites with photocatalytic TiO <sub>2</sub> and ZnO nanoparticles for massive environmental decontamination. <i>Journal of Nanophotonics</i> , <b>2007</b> , 1, 011685	1.1	4
11	MoS <sub>2</sub> Phototransistor Sensitized by Colloidal Semiconductor Quantum Wells. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 2001198	8.1	4
10	Bandgap tuning of Monolayer MoS <sub>2</sub> (1-x)Se <sub>2</sub> x alloys by optimizing parameters. <i>Materials Science in Semiconductor Processing</i> , <b>2019</b> , 99, 134-139	4.3	3
9	CVD GROWTH and CHARACTERIZATION OF 2D TRANSITION METAL DICHALCOGENIDES, MoS <sub>2</sub> and WS <sub>2</sub> . <i>Anadolu University Journal of Sciences &amp; Technology</i> , 1-1		3
8	Temperature-dependent Raman modes of MoS <sub>2</sub> /MoSe <sub>2</sub> van der Waals heterostructures. <i>Semiconductor Science and Technology</i> , <b>2020</b> , 35, 115020	1.8	2

7	A review on recent advances of chemical vapor deposition technique for monolayer transition metal dichalcogenides (MX <sub>2</sub> : Mo, W; S, Se, Te). <i>Materials Science in Semiconductor Processing</i> , <b>2022</b> , 148, 106829	4.3	2
6	Control of optical amplification process with extremely low background loss in Er:Al <sub>2</sub> O <sub>3</sub> Waveguides <b>2017</b> ,		1
5	Highly polarized light emission by isotropic quantum dots integrated with magnetically aligned segmented nanowires. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 141116	3.4	1
4	CALCULATION OF COVERAGE AND FLAKE SIZE OF MONOLAYERS GROWN BY CHEMICAL VAPOR DEPOSITION TECHNIQUE. <i>Uluda University Journal of the Faculty of Engineering</i> , 203-214	0.1	1
3	A realistic approach for designing a single-mode Y-branch for weakly guiding material system using particle swarm algorithm. <i>Optical and Quantum Electronics</i> , <b>2020</b> , 52, 1	2.4	0
2	Controlled CVD growth of ultrathin Mo <sub>2</sub> C (MXene) flakes. <i>Journal of Applied Physics</i> , <b>2022</b> , 131, 025304	2.5	0
1	Enhanced performance of supercapacitors based on rotationally stacked CVD graphene. <i>Journal of Applied Physics</i> , <b>2022</b> , 131, 164302	2.5	