Nihan Kosku Perkgoz

List of Publications by Year in Descending Order

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	Controlled CVD growth of ultrathin Mo2C (MXene) flakes. *Journal of Applied Physics*, **2022**, 131, 025304	2.5	0
41	Enhanced performance of supercapacitors based on rotationally stacked CVD graphene. *Journal of Applied Physics*, **2022**, 131, 164302	2.5	
40	A review on recent advances of chemical vapor deposition technique for monolayer transition metal dichalcogenides (MX2: Mo, W; S, Se, Te). *Materials Science in Semiconductor Processing*, **2022**, 148, 106829	4.3	2
39	A realistic approach for designing a single-mode Y-branch for weakly guiding material system using particle swarm algorithm. *Optical and Quantum Electronics*, **2020**, 52, 1	2.4	0
38	Temperature-dependent Raman modes of MoS2/MoSe2 van der Waals heterostructures. *Semiconductor Science and Technology*, **2020**, 35, 115020	1.8	2
37	Layer and size distribution control of CVD-grown 2D MoS2 using ALD-deposited MoO3 structures as the precursor. *Materials Science in Semiconductor Processing*, **2020**, 108, 104880	4.3	14
36	MoS2 Phototransistor Sensitized by Colloidal Semiconductor Quantum Wells. *Advanced Optical Materials*, **2020**, 8, 2001198	8.1	4
35	Glass-assisted CVD growth of large-area MoS2, WS2 and MoSe2 monolayers on Si/SiO2 substrate. *Materials Science in Semiconductor Processing*, **2020**, 105, 104679	4.3	15
34	CVD growth of monolayer WS2 through controlled seed formation and vapor density. *Materials Science in Semiconductor Processing*, **2019**, 93, 158-163	4.3	15
33	Bandgap tuning of Monolayer MoS2(1-x)Se2x alloys by optimizing parameters. *Materials Science in Semiconductor Processing*, **2019**, 99, 134-139	4.3	3
32	Long-Term Stability Control of CVD-Grown Monolayer MoS2. *Physica Status Solidi - Rapid Research Letters*, **2019**, 13, 1800687	2.5	15
31	Low Loss Atomic Layer Deposited Al2O3 Waveguides for Applications in On-Chip Optical Amplifiers. *IEEE Journal of Selected Topics in Quantum Electronics*, **2018**, 24, 1-8	3.8	12
30	A distinct correlation between the vibrational and thermal transport properties of group VA monolayer crystals. *Nanoscale*, **2018**, 10, 7803-7812	7.7	23
29	A comparative device performance assesment of CVD grown MoS2 and WS2 monolayers. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 8785-8792	2.1	12
28	Near-Unity Efficiency Energy Transfer from Colloidal Semiconductor Quantum Wells of CdSe/CdS Nanoplatelets to a Monolayer of MoS. *ACS Nano*, **2018**, 12, 8547-8554	16.7	25
27	CVD growth of monolayer MoS2: Role of growth zone configuration and precursors ratio. *Japanese Journal of Applied Physics*, **2017**, 56, 06GG05	1.4	40
26	Control of optical amplification process with extremely low background loss in Er:Al2O3 Waveguides **2017**,		1

25	Investigation of Single-Wall MoS Monolayer Flakes Grown by Chemical Vapor Deposition. *Nano-Micro Letters*, **2016**, 8, 70-79	19.5	27
24	Thermal Conductivity Suppression in Nanostructured Silicon and Germanium Nanowires. *Journal of Electronic Materials*, **2016**, 45, 1594-1600	1.9	4
23	Vibrational and mechanical properties of single layer MXene structures: a first-principles investigation. *Nanotechnology*, **2016**, 27, 335702	3.4	138
22	CVD grown 2D MoS2 layers: A photoluminescence and fluorescence lifetime imaging study. *Physica Status Solidi - Rapid Research Letters*, **2016**, 10, 792-796	2.5	14
21	Nanotechnological Advances in Catalytic Thin Films for Green Large-Area Surfaces. *Journal of Nanomaterials*, **2015**, 2015, 1-20	3.2	7
20	Vibrational and thermodynamic properties of □ □ □ and 6, 6, 12-graphyne structures. *Nanotechnology*, **2014**, 25, 185701	3.4	51
19	Highly polarized light emission by isotropic quantum dots integrated with magnetically aligned segmented nanowires. *Applied Physics Letters*, **2014**, 105, 141116	3.4	1
18	Photocatalytic hybrid nanocomposites of metal oxide nanoparticles enhanced towards the visible spectral range. *Applied Catalysis B: Environmental*, **2011**, 105, 77-85	21.8	18
17	RF-MEMS Load Sensors with Enhanced Q-factor and Sensitivity in a Suspended Architecture. *Microelectronic Engineering*, **2011**, 88, 247-253	2.5	6
16	**2010**,		14
15	Metamaterial based telemetric strain sensing in different materials. *Optics Express*, **2010**, 18, 5000-7	3.3	43
14	Nested Metamaterials for Wireless Strain Sensing. *IEEE Journal of Selected Topics in Quantum Electronics*, **2010**, 16, 450-458	3.8	75
13	Metamaterial-based wireless strain sensors. *Applied Physics Letters*, **2009**, 95, 011106	3.4	119
12	Circular High-Q Resonating Isotropic Strain Sensors with Large Shift of Resonance Frequency under Stress. *Sensors*, **2009**, 9, 9444-51	3.8	7
11	Flexible metamaterials for wireless strain sensing. *Applied Physics Letters*, **2009**, 95, 181105	3.4	86
10	. *IEEE Transactions on Electron Devices*, **2008**, 55, 3459-3466	2.9	10
9	White emitting CdS quantum dot nanoluminophores hybridized on near-ultraviolet LEDs for high-quality white light generation and tuning. *New Journal of Physics*, **2008**, 10, 023026	2.9	52
8	Bio-implantable passive on-chip RF-MEMS strain sensing resonators for orthopaedic applications. *Journal of Micromechanics and Microengineering*, **2008**, 18, 115017	2	37

7	Comparative study of optically activated nanocomposites with photocatalytic TiO2 and ZnO nanoparticles for massive environmental decontamination. *Journal of Nanophotonics*, **2007**, 1, 011685	1.1	4
6	The application of very high frequency inductively coupled plasma to high-rate growth of microcrystalline silicon films. *Journal of Non-Crystalline Solids*, **2006**, 352, 911-914	3.9	7
5	Insights into the high-rate growth of highly crystallized silicon films from inductively coupled plasma of H2-diluted SiH4. *Thin Solid Films*, **2006**, 511-512, 265-270	2.2	20
4	Influence of substrate dc bias on crystallinity of silicon films grown at a high rate from inductively-coupled plasma CVD. *Applied Surface Science*, **2005**, 244, 39-42	6.7	17
3	High-rate deposition of highly crystallized silicon films from inductively coupled plasma. *Thin Solid Films*, **2003**, 435, 39-43	2.2	21
2	CVD GROWTH and CHARACTERIZATION OF 2D TRANSITION METAL DICHALCOGENIDES, MoS2 and WS2. *Anadolu University Journal of Sciences & Technology*,1-1		3
1	CALCULATION OF COVERAGE AND FLAKE SIZE OF MONOLAYERS GROWN BY CHEMICAL VAPOR DEPOSITION TECHNIQUE. *Uluda University Journal of the Faculty of Engineering*,203-214	0.1	1