# Nihan Kosku Perkgoz

List of Publications by Year
in descending order



| 45 | 1,331 | 394286 19 | 360920 35 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 45 | 45 | 45 | 1784 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Vibrational and mechanical properties of single layer MXene structures: a first-principles investigation. Nanotechnology, 2016, 27, 335702. | 1.3 | 226 |
| 2 | Metamaterial-based wireless strain sensors. Applied Physics Letters, 2009, 95, . | 1.5 | 144 |
| 3 | Flexible metamaterials for wireless strain sensing. Applied Physics Letters, 2009, 95, 181105. | 1.5 | 94 |
| 4 | Nested Metamaterials for Wireless Strain Sensing. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 450-458. | 1.9 | 93 |
| 5 | Vibrational and thermodynamic properties ofÎ±-,Î²-,Î³-, and 6, 6, 12-graphyne structures. Nanotechnology, 2014, 25, 185701. | 1.3 | 64 |
| 6 | 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. | 1.2 | 55 |
| 7 | Metamaterial based telemetric strain sensing in different materials. Optics Express, 2010, 18, 5000. | 1.7 | 52 |
| 8 | CVD growth of monolayer MoS<sub>2</sub>: Role of growth zone configuration and precursors ratio. Japanese Journal of Applied Physics, 2017, 56, 06GG05. | 0.8 | 51 |
| 9 | Bio-implantable passive on-chip RF-MEMS strain sensing resonators for orthopaedic applications. Journal of Micromechanics and Microengineering, 2008, 18, 115017. | 1.5 | 42 |
| 10 | Investigation of Single-Wall MoS2 Monolayer Flakes Grown by Chemical Vapor Deposition. Nano-Micro Letters, 2016, 8, 70-79. | 14.4 | 37 |
| 11 | A distinct correlation between the vibrational and thermal transport properties of group VA monolayer crystals. Nanoscale, 2018, 10, 7803-7812. | 2.8 | 35 |
| 12 | Near-Unity Efficiency Energy Transfer from Colloidal Semiconductor Quantum Wells of CdSe/CdS Nanoplatelets to a Monolayer of MoS<sub>2</sub>. ACS Nano, 2018, 12, 8547-8554. | 7.3 | 34 |
| 13 | Longâ€Term Stability Control of CVDâ€Grown Monolayer MoS<sub>2</sub>. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1800687. | 1.2 | 31 |
| 14 | CVD growth of monolayer WS2 through controlled seed formation and vapor density. Materials Science in Semiconductor Processing, 2019, 93, 158-163. | 1.9 | 30 |
| 15 | CVD grown 2D MoS<sub>2</sub> layers: A photoluminescence and fluorescence lifetime imaging study. Physica Status Solidi - Rapid Research Letters, 2016, 10, 792-796. | 1.2 | 26 |
| 16 | Glass-assisted CVD growth of large-area MoS2, WS2 and MoSe2 monolayers on Si/SiO2 substrate. Materials Science in Semiconductor Processing, 2020, 105, 104679. | 1.9 | 26 |
| 17 | Photocatalytic hybrid nanocomposites of metal oxide nanoparticles enhanced towards the visible spectral range. Applied Catalysis B: Environmental, 2011, 105, 77-85. | 10.8 | 25 |
| 18 | High-rate deposition of highly crystallized silicon films from inductively coupled plasma. Thin Solid Films, 2003, 435, 39-43. | 0.8 | 24 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 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. | 1.9 | 24 |
| 20 | 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. | 0.8 | 20 |
| 21 | 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. | 1.9 | 20 |
| 22 | Low Loss Atomic Layer Deposited Al<sub>2</sub>O<sub>3</sub> Waveguides for Applications in On-Chip Optical Amplifiers. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-8. | 1.9 | 19 |
| 23 | 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. | 3.1 | 18 |
| 24 | Metamaterial-based wireless RF-MEMS strain sensors. , 2010, , . | | 17 |
| 25 | A comparative device performance assesment of CVD grown MoS2 and WS2 monolayers. Journal of Materials Science: Materials in Electronics, 2018, 29, 8785-8792. | 1.1 | 17 |
| 26 | Controlled CVD growth of ultrathin Mo2C (MXene) flakes. Journal of Applied Physics, 2022, 131, . | 1.1 | 14 |
| 27 | Design and Realization of a Fully On-Chip High-$Q$ Resonator at 15 GHz on Silicon. IEEE Transactions on Electron Devices, 2008, 55, 3459-3466. | 1.6 | 12 |
| 28 | 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. | 1.5 | 9 |
| 29 | Nanotechnological Advances in Catalytic Thin Films for Green Large-Area Surfaces. Journal of Nanomaterials, 2015, 2015, 1-20. | 1.5 | 9 |
| 30 | Circular High-Q Resonating Isotropic Strain Sensors with Large Shift of Resonance Frequency under Stress. Sensors, 2009, 9, 9444-9451. | 2.1 | 8 |
| 31 | MoS<sub>2</sub> Phototransistor Sensitized by Colloidal Semiconductor Quantum Wells. Advanced Optical Materials, 2020, 8, 2001198. | 3.6 | 8 |
| 32 | Temperature-dependent Raman modes of MoS<sub>2</sub>/MoSe<sub>2</sub> van der Waals heterostructures. Semiconductor Science and Technology, 2020, 35, 115020. | 1.0 | 8 |
| 33 | RF-MEMS load sensors with enhanced Q-factor and sensitivity in a suspended architecture. Microelectronic Engineering, 2011, 88, 247-253. | 1.1 | 7 |
| 34 | Thermal Conductivity Suppression in Nanostructured Silicon and Germanium Nanowires. Journal of Electronic Materials, 2016, 45, 1594-1600. | 1.0 | 7 |
| 35 | Bandgap tuning of Monolayer MoS2(1-x)Se2x alloys by optimizing parameters. Materials Science in Semiconductor Processing, 2019, 99, 134-139. | 1.9 | 7 |
| 36 | Comparative study of optically activated nanocomposites with photocatalytic TiO<sub>2</sub> and ZnO nanoparticles for massive environmental decontamination. Journal of Nanophotonics, 2007, 1, 011685. | 0.4 | 5 |

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|---|---|---|---|
| 37 | CVD GROWTH and CHARACTERIZATION OF 2D TRANSITION METAL DICHALCOGENIDES, MoS2 and WS2. Anadolu University Journal of Sciences & Technology, 0, , 1-1. | 0.2 | 4 |
| 38 | CALCULATION OF COVERAGE AND FLAKE SIZE OF MONOLAYERS GROWN BY CHEMICAL VAPOR DEPOSITION TECHNIQUE. UludaÄŸ University Journal of the Faculty of Engineering, 0, , 203-214. | 0.2 | 3 |
| 39 | Highly polarized light emission by isotropic quantum dots integrated with magnetically aligned segmented nanowires. Applied Physics Letters, 2014, 105, 141116. | 1.5 | 2 |
| 40 | Enhanced performance of supercapacitors based on rotationally stacked CVD graphene. Journal of Applied Physics, 2022, 131, . | 1.1 | 2 |
| 41 | Control of optical amplification process with extremely low background loss in Er:Al<inf>2</inf>O<inf>3</inf> Waveguides. , 2017, , . | | 1 |
| 42 | 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. | 1.5 | 1 |
| 43 | White CdS Nanoluminophore based Tunable Hybrid Light Emitting Diodes. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , . | 0.0 | 0 |
| 44 | Development and Biocompatibility Characterization of a BioMEMS Sensor for Monitoring the Progression of Fracture Healing. , 2009, , . | | 0 |
| 45 | ALD Assisted 2D Monolayer Transition Metal Dichalcogenides and Their Applications in Optoelectronics. , 2019, , . | | 0 |