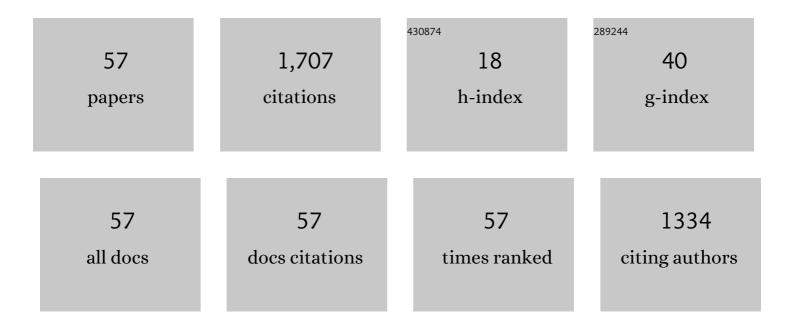
## Myungkoo Kang

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9541282/publications.pdf Version: 2024-02-01



| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Broadband transparent optical phase change materials for high-performance nonvolatile photonics.<br>Nature Communications, 2019, 10, 4279.  | 12.8 | 349       |
| 2  | Electrically reconfigurable non-volatile metasurface using low-loss optical phase-change material.<br>Nature Nanotechnology, 2021, 16, 661-666.   | 31.5 | 298       |
| 3  | Reconfigurable all-dielectric metalens with diffraction-limited performance. Nature Communications, 2021, 12, 1225.   | 12.8 | 221       |
| 4  | Multifunctional Metasurface Design with a Generative Adversarial Network. Advanced Optical<br>Materials, 2021, 9, 2001433.  | 7.3  | 78        |
| 5  | Multiâ€Level Electroâ€Thermal Switching of Optical Phaseâ€Change Materials Using Graphene. Advanced<br>Photonics Research, 2021, 2, 2000034.  | 3.6  | 75        |
| 6  | Deep learning modeling approach for metasurfaces with high degrees of freedom. Optics Express, 2020, 28, 31932.   | 3.4  | 73        |
| 7  | Nonlinear characterization of GeSbS chalcogenide glass waveguides. Scientific Reports, 2016, 6, 39234.  | 3.3  | 50        |
| 8  | New Candidate Multicomponent Chalcogenide Glasses for Supercontinuum Generation. Applied<br>Sciences (Switzerland), 2018, 8, 2082.  | 2.5  | 39        |
| 9  | Refractive index patterning of infrared glass ceramics through laser-induced vitrification [Invited].<br>Optical Materials Express, 2018, 8, 2722.  | 3.0  | 36        |
| 10 | Ultralow Dispersion Multicomponent Thinâ€Film Chalcogenide Glass for Broadband Gradientâ€Index<br>Optics. Advanced Materials, 2018, 30, e1803628.   | 21.0 | 36        |
| 11 | Long-lived monolithic micro-optics for multispectral GRIN applications. Scientific Reports, 2018, 8, 7388.  | 3.3  | 29        |
| 12 | Deep Convolutional Neural Networks to Predict Mutual Coupling Effects in Metasurfaces. Advanced Optical Materials, 2022, 10, 2102113.   | 7.3  | 28        |
| 13 | Evidence of spatially selective refractive index modification in 15GeSe_2-45As_2Se_3-40PbSe glass ceramic through correlation of structure and optical property measurements for GRIN applications. Optical Materials Express, 2017, 7, 3077. | 3.0  | 26        |
| 14 | Observation of very high order multi-photon absorption in GeSbS chalcogenide glass. APL Photonics, 2019, 4, 036102.   | 5.7  | 25        |
| 15 | Nonlinear Midâ€Infrared Metasurface based on a Phaseâ€Change Material. Laser and Photonics Reviews, 2021, 15, 2000373.  | 8.7  | 25        |
| 16 | Transient Tap Couplers for Wafer-Level Photonic Testing Based on Optical Phase Change Materials.<br>ACS Photonics, 2021, 8, 1903-1908.  | 6.6  | 24        |
| 17 | Advances in infrared gradient refractive index (GRIN) materials: a review. Optical Engineering, 2020, 59,<br>1.   | 1.0  | 22        |
| 18 | Infrared Glass–Ceramics with Multidispersion and Gradient Refractive Index Attributes. Advanced<br>Functional Materials, 2019, 29, 1902217.   | 14.9 | 21        |

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| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | Reconfigurable Frequency-Selective Resonance Splitting in Chalcogenide Microring Resonators. ACS<br>Photonics, 2020, 7, 499-511.  | 6.6  | 19        |
| 20 | Reconfigurable Parfocal Zoom Metalens. Advanced Optical Materials, 2022, 10, .  | 7.3  | 18        |
| 21 | Melt property variation in GeSe 2 â€As 2 Se 3 â€PbSe glass ceramics for infrared gradient refractive index<br>(GRIN) applications. International Journal of Applied Glass Science, 2019, 10, 27-40.           | 2.0  | 16        |
| 22 | Electrically Microâ€Polarized Amorphous Sodoâ€Niobate Film Competing with Crystalline Lithium Niobate<br>Secondâ€Order Optical Response. Advanced Optical Materials, 2020, 8, 2000202.                        | 7.3  | 14        |
| 23 | Broadband couplers for hybrid silicon-chalcogenide glass photonic integrated circuits. Optics Express, 2019, 27, 13781.   | 3.4  | 14        |
| 24 | Processing and fabrication of micro-structures by multiphoton lithography in germanium-doped arsenic selenide. Optical Materials Express, 2018, 8, 1902.  | 3.0  | 13        |
| 25 | Processing and properties of novel ZnO–Bi2O3–B2O3 glass-ceramic nanocomposites. Journal of Alloys and Compounds, 2020, 820, 153173.   | 5.5  | 13        |
| 26 | Monolithic Chalcogenide Optical Nanocomposites Enable Infrared System Innovation: Gradient<br>Refractive Index Optics. Advanced Optical Materials, 2020, 8, 2000150.  | 7.3  | 13        |
| 27 | Self-Organized Freestanding One-Dimensional Au Nanoparticle Arrays. ACS Nano, 2017, 11, 5844-5852.  | 14.6 | 12        |
| 28 | Investigation of ZnSe stability and dissolution behavior in As-S-Se chalcogenide glasses. Journal of<br>Non-Crystalline Solids, 2021, 555, 120619.  | 3.1  | 12        |
| 29 | Understanding aging in chalcogenide glass thin films using precision resonant cavity refractometry.<br>Optical Materials Express, 2019, 9, 2252.  | 3.0  | 12        |
| 30 | Externally Pumped Photonic Chipâ€Based Ultrafast Raman Soliton Source. Laser and Photonics Reviews,<br>2021, 15, 2000301.   | 8.7  | 11        |
| 31 | Structurally and morphologically engineered chalcogenide materials for optical and photonic devices. Journal of Optical Microsystems, 2021, 1, .  | 1.5  | 10        |
| 32 | Spatial tailoring of the refractive index in infrared glass-ceramic films enabled by direct laser writing. Optics and Laser Technology, 2020, 126, 106058.  | 4.6  | 9         |
| 33 | Fabrication and characterization of microstructures created in thermally deposited arsenic<br>trisulfide by multiphoton lithography. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2017,<br>16, 023508. | 0.9  | 8         |
| 34 | Influence of phase separation on structure–property relationships in the (GeSe2–3As2Se3)1â^'xPbSex<br>glass system. Journal of Commonwealth Law and Legal Education, 2017, 58, 115-126.                       | 0.5  | 6         |
| 35 | Impact of raw material surface oxide removal on dual band infrared optical properties of<br>As <sub>2</sub> Se <sub>3</sub> chalcogenide glass. Optical Materials Express, 2020, 10, 2274.                    | 3.0  | 6         |
| 36 | Unveiling True 3D Nanoscale Microstructural Evolution in Chalcogenide Nanocomposites: A Roadmap<br>for Advanced Infrared Functionality. Advanced Optical Materials, 2021, 9, 2002092.                         | 7.3  | 5         |

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|----|---|-----|-----------|
| 37 | Secondâ€Order Optical Response in Electrically Polarized Sodoâ€Niobate Amorphous Thin Films:<br>Particularity of Multilayer Systems. Advanced Photonics Research, 2021, 2, 2000171.   | 3.6 | 5         |
| 38 | Electrically-switchable foundry-processed phase change photonic devices. , 2021, , .  |     | 5         |
| 39 | Advances in infrared GRIN: a review of novel materials towards components and devices. , 2018, , .  |     | 5         |
| 40 | Enhancement of ZnSe stability during optical composite processing via atomic layer deposition.<br>Journal of Non-Crystalline Solids, 2022, 576, 121259.   | 3.1 | 5         |
| 41 | Three-Dimensional Microstructural Characterization of Novel Chalcogenide Nanocomposites for Gradient Refractive Index Applications. Microscopy and Microanalysis, 2019, 25, 2500-2501.  | 0.4 | 4         |
| 42 | Unveiling True Three-dimensional Microstructural Evolution in Novel Chalcogenide Nanocomposites<br>as a Route to Infrared Gradient Refractive Index Functionality. Microscopy and Microanalysis, 2020,<br>26, 3078-3080.                              | 0.4 | 3         |
| 43 | Impact of Morphology and Microstructure on the Mechanical Properties of Ge-As-Pb-Se Glass<br>Ceramics. Applied Sciences (Switzerland), 2020, 10, 2836.  | 2.5 | 3         |
| 44 | Laser-induced modification of local refractive index in infrared glass-ceramic films. , 2019, , .   |     | 3         |
| 45 | Scalable laser-written Ge-As-Pb-Se chalcogenide glass-ceramic films and the realization of infrared gradient refractive index elements. , 2019, , .   |     | 3         |
| 46 | In Situ X-Ray Diffraction Studies of Crystallization Growth Behavior in ZnO-Bi2O3-B2O3 Glass as a<br>Route to Functional Optical Devices. MRS Advances, 2018, 3, 563-567.   | 0.9 | 2         |
| 47 | Nonlinear optical properties of GeSbS chalcogenide waveguides. , 2017, , .  |     | 1         |
| 48 | Gradient Refractive Index (GRIN) Optics: Monolithic Chalcogenide Optical Nanocomposites Enable<br>Infrared System Innovation: Gradient Refractive Index Optics (Advanced Optical Materials 10/2020).<br>Advanced Optical Materials, 2020, 8, 2070040. | 7.3 | 1         |
| 49 | On-chip Electrothermal Switching of Low-loss Phase Change Materials for Nonvolatile Programmable<br>Photonic Circuits. , 2021, , .  |     | 1         |
| 50 | Editorial special issue women in glass. International Journal of Applied Glass Science, 2020, 11, 383-384.  | 2.0 | 0         |
| 51 | Glasses: Chalcogenides. , 2021, , 540-554.  |     | 0         |
| 52 | Mid-infrared nonlinear optical properties of droplet-free chalcogenide GeSe2-As2Se3-PbSe glasses. ,<br>2020, , .  |     | 0         |
| 53 | Chalcogenide Glass-Ceramics for Lightweight Aberration-Minimized Infrared Gradient Refractive Index Flat Media. , 2021, , .   |     | Ο         |
| 54 | Phase change reconfigurable nanophotonics on a foundry-processed SOI platform. , 2021, , .  |     | 0         |

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|----|--|-----|-----------|
| 55 | Interlayer Slope Waveguide Coupler for Multilayer Chalcogenide Photonics. Photonics, 2022, 9, 94.  | 2.0 | Ο         |
| 56 | Phase change materials: the 'silicon' for analog photonic computing?. , 2022, , .  |     | 0         |
| 57 | Spatially-microstructured topology of chalcogenide glasses by a combination of electrothermal process and selective etching for functional infrared media. Optical Materials Express, 0, , . | 3.0 | Ο         |