

# Hiroshi Ohno

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

678  
citations

687363

13  
h-index

552781

26  
g-index

41  
all docs

41  
docs citations

41  
times ranked

503  
citing authors

| #  | ARTICLE                                                                                                                                                                               | IF   | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1  | Cosmological Magnetic Field: A Fossil of Density Perturbations in the Early Universe. <i>Science</i> , 2006, 311, 827-829.                                                            | 12.6 | 124       |
| 2  | Magnetic Field Generation from Cosmological Perturbations. <i>Physical Review Letters</i> , 2005, 95, 121301.                                                                         | 7.8  | 100       |
| 3  | Biermann Mechanism in Primordial Supernova Remnant and Seed Magnetic Fields. <i>Astrophysical Journal</i> , 2005, 633, 941-945.                                                       | 4.5  | 62        |
| 4  | Radio Halo Formation through Magnetoturbulent Particle Acceleration in Clusters of Galaxies. <i>Astrophysical Journal</i> , 2002, 577, 658-667.                                       | 4.5  | 58        |
| 5  | Decaying Cold Dark Matter and the Evolution of the Cluster Abundance. <i>Astrophysical Journal</i> , 2003, 597, 645-649.                                                              | 4.5  | 34        |
| 6  | TURBULENT COSMIC-RAY REACCELERATION AT RADIO RELICS AND HALOS IN CLUSTERS OF GALAXIES. <i>Astrophysical Journal</i> , 2015, 815, 116.                                                 | 4.5  | 29        |
| 7  | Cosmic magnetism in centimeter- and meter-wavelength radio astronomy. <i>Publication of the Astronomical Society of Japan</i> , 2018, 70, .                                           | 2.5  | 25        |
| 8  | Probing Intracluster Magnetic Fields with Cosmic Microwave Background Polarization. <i>Astrophysical Journal</i> , 2003, 584, 599-607.                                                | 4.5  | 24        |
| 9  | Symplectic ray tracing based on Hamiltonian optics in gradient-index media. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2020, 37, 411. | 1.5  | 23        |
| 10 | Scalar potential reconstruction method of axisymmetric 3D refractive index fields with background-oriented schlieren. <i>Optics Express</i> , 2019, 27, 5990.                         | 3.4  | 23        |
| 11 | Reconstruction method of axisymmetric refractive index fields with background-oriented schlieren. <i>Applied Optics</i> , 2018, 57, 9062.                                             | 1.8  | 21        |
| 12 | Gradient-index dark hole based on conformal mapping with etendue conservation. <i>Optics Express</i> , 2019, 27, 18493.                                                               | 3.4  | 18        |
| 13 | Localized gradient-index field reconstruction using background-oriented schlieren. <i>Applied Optics</i> , 2019, 58, 7795.                                                            | 1.8  | 17        |
| 14 | Points-connecting neural network ray tracing. <i>Optics Letters</i> , 2021, 46, 4116.                                                                                                 | 3.3  | 13        |
| 15 | One-shot color mapping imaging system of light direction extracted from a surface BRDF. <i>OSA Continuum</i> , 2020, 3, 3343.                                                         | 1.8  | 13        |
| 16 | One-shot three-dimensional measurement method with the color mapping of light direction. <i>OSA Continuum</i> , 2021, 4, 840.                                                         | 1.8  | 12        |
| 17 | One-shot BRDF imaging system to obtain surface properties. <i>Optical Review</i> , 2021, 28, 655-661.                                                                                 | 2.0  | 11        |
| 18 | Neural network gradient-index mapping. <i>OSA Continuum</i> , 2021, 4, 2543.                                                                                                          | 1.8  | 11        |

| #  | ARTICLE                                                                                                                                                                                           | IF  | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Design of a coaxial light guide producing a wide-angle light distribution. Applied Optics, 2017, 56, 3977.                                                                                        | 2.1 | 10        |
| 20 | Depth reconstruction with coaxial multi-wavelength aperture telecentric optical system. Optics Express, 2018, 26, 25880.                                                                          | 3.4 | 10        |
| 21 | Design of a transmissive optical system of a laser metal deposition three-dimensional printer with metal powder. Applied Optics, 2019, 58, 4127.                                                  | 1.8 | 9         |
| 22 | Ghost secondary light source for LED collimated illumination. Applied Optics, 2020, 59, 10339.                                                                                                    | 1.8 | 6         |
| 23 | Total internal reflection shell for light-emitting diode bulbs. Applied Optics, 2019, 58, 87.                                                                                                     | 1.8 | 6         |
| 24 | Design of secondary light source for reflectors with axisymmetric light guide. Applied Optics, 2019, 58, 3848.                                                                                    | 1.8 | 5         |
| 25 | GENERATION OF LARGE-SCALE MAGNETIC FIELDS FROM PRIMORDIAL DENSITY FLUCTUATIONS. Modern Physics Letters A, 2007, 22, 2091-2098.                                                                    | 1.2 | 3         |
| 26 | Multi-parabolic illuminator to combine perpendicular collimated illuminations with an LED source. OSA Continuum, 2021, 4, 2154.                                                                   | 1.8 | 2         |
| 27 | Multi-angle-view monocular camera using a polarization image sensor. Applied Optics, 2019, 58, 4036.                                                                                              | 1.8 | 2         |
| 28 | Improved power and far-field pattern of surface-emitting quantum cascade lasers with strain compensation to operate at 4.3 $\mu\text{m}$ . Japanese Journal of Applied Physics, 2022, 61, 052001. | 1.5 | 2         |
| 29 | Reduction in pn Junction Leakage for Ni-Silicided Small Si Islands by Using Improved Convection Annealing. Japanese Journal of Applied Physics, 2009, 48, 076503.                                 | 1.5 | 1         |
| 30 | Measurement method for axisymmetric 3D stress-tensor fields using background-oriented schlieren. Mechanical Engineering Journal, 2019, 6, 19-00393-19-00393.                                      | 0.4 | 1         |
| 31 | Dual coaxial lens system for depth reconstruction. Optical Review, 2019, 26, 500-506.                                                                                                             | 2.0 | 1         |
| 32 | Multi-distance surface-emitting beam profile calculation method based on the FDTD method and the diffraction theory. Optics Express, 2021, 29, 9396.                                              | 3.4 | 1         |
| 33 | Differential-geometry-based surface normal vector calculation method using a time-of-flight camera. Applied Optics, 2021, 60, 5906.                                                               | 1.8 | 1         |
| 34 | Origin of Cosmological Magnetic Fields. AIP Conference Proceedings, 2006, , .                                                                                                                     | 0.4 | 0         |
| 35 | Optical interference effect on chip's temperature distribution in the optical annealing process. , 2008, , .                                                                                      |     | 0         |
| 36 | A numerical method to reconstruct internal structures with a laser ultrasonic technique. , 2018, , .                                                                                              |     | 0         |

| #  | ARTICLE                                                                                                                                                                     | IF  | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Gradient-index measurement method of thermal lens in high-power laser processing. , 2019, , .                                                                               |     | 0         |
| 38 | Multi-slicing matrix method for calculating s-polarization reflectance modulation induced by picosecond acoustic pulses for stratified media. OSA Continuum, 2019, 2, 1242. | 1.8 | 0         |
| 39 | Reconstruction method of gradient-index field with background-oriented schlieren. , 2020, , .                                                                               |     | 0         |
| 40 | Beam shaping surface photonic structure for surface-emitting quantum cascade laser. , 2022, , .                                                                             |     | 0         |