

Takashi Ito

List of Publications by Year in descending order

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2,548
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218677

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102
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102
docs citations

102
times ranked

1813
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | The Origin of Planetary Impactors in the Inner Solar System. Science, 2005, 309, 1847-1850. | 12.6 | 397 |
| 2 | CELLULAR AND SUBCELLULAR MECHANISMS OF PHOTODYNAMIC ACTION: THE $1O_2$ HYPOTHESIS AS A DRIVING FORCE IN RECENT RESEARCH. Photochemistry and Photobiology, 1978, 28, 493-506. | 2.5 | 251 |
| 3 | A study of asteroid pole-latitude distribution based on an extended set of shape models derived by the lightcurve inversion method. Astronomy and Astrophysics, 2011, 530, A134. | 5.1 | 114 |
| 4 | Long-term integrations and stability of planetary orbits in our Solar system. Monthly Notices of the Royal Astronomical Society, 2002, 336, 483-500. | 4.4 | 102 |
| 5 | A SURVEY OF <i>IN VIVO</i> PHOTODYNAMIC ACTIVITY OF XANTHENES, THIAZINES, AND ACRIDINES IN YEAST CELLS. Photochemistry and Photobiology, 1977, 26, 581-587. | 2.5 | 82 |
| 6 | TOLUIDINE BLUE: THE MODE OF PHOTODYNAMIC ACTION IN YEAST CELLS. Photochemistry and Photobiology, 1977, 25, 47-53. | 2.5 | 77 |
| 7 | The Lidov-Kozai Oscillation and Hugo von Zeipel. Monographs on Environment Earth and Planets, 2019, 7, 1-113. | 9.0 | 72 |
| 8 | Apollo asteroid 2005 UD: split nucleus of (3200) Phaethon?. Astronomy and Astrophysics, 2006, 450, L25-L28. | 5.1 | 71 |
| 9 | The inner solar system cratering record and the evolution of impactor populations. Research in Astronomy and Astrophysics, 2015, 15, 407-434. | 1.7 | 58 |
| 10 | FURTHER IN VIVO STUDIES ON THE PARTICIPATION OF SINGLET OXYGEN IN THE PHOTODYNAMIC INACTIVATION AND INDUCTION OF GENETIC CHANGES IN SACCHAROMYCES CEREVISIAE. Photochemistry and Photobiology, 1976, 23, 21-28. | 2.5 | 53 |
| 11 | ABSORPTION SPECTRA OF DEOXYRIBOSE, RIBOSEPHOSPHATE, ATP AND DNA BY DIRECT TRANSMISSION MEASUREMENTS IN THE VACUUM-UV (150–190 nm) AND FAR-UV (190–260 nm) REGIONS USING SYNCHROTRON RADIATION AS A LIGHT SOURCE. Photochemistry and Photobiology, 1986, 44, 355-358. | 2.5 | 48 |
| 12 | Obliquity variations of terrestrial planets in habitable zones. Icarus, 2004, 168, 223-236. | 2.5 | 48 |
| 13 | The Temperature Dependence of Gamma-Ray Responses of YAG:Ce Ceramic Scintillators. IEEE Transactions on Nuclear Science, 2006, 53, 2404-2408. | 2.0 | 48 |
| 14 | TERRESTRIAL PLANET FORMATION DURING THE MIGRATION AND RESONANCE CROSSINGS OF THE GIANT PLANETS. Astrophysical Journal, 2013, 773, 65. | 4.5 | 48 |
| 15 | Monochromatic X-ray irradiation system (0.08-0.4nm) for radiation biology studies using synchrotron radiation at the Photon Factory.. Journal of Radiation Research, 1987, 28, 243-253. | 1.6 | 47 |
| 16 | <i>IN VIVO</i> EVIDENCE FOR THE PHOTODYNAMIC MEMBRANE DAMAGE AS A DETERMINING STEP OF THE INACTIVATION OF YEAST CELLS SENSITIZED BY TOLUIDINE BLUE. Photochemistry and Photobiology, 1977, 25, 399-401. | 2.5 | 44 |
| 17 | Stability and Instability of the Terrestrial Protoplanet System and Their Possible Roles in the Final Stage of Planet Formation. Icarus, 1999, 139, 336-349. | 2.5 | 44 |
| 18 | Terrestrial Planet Formation: Constraining the Formation of Mercury. Astrophysical Journal, 2017, 838, 106. | 4.5 | 43 |

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|----|--|------|-----------|
| 19 | Solar-Radiation Heating Effects on 3200 Phaethon. Publication of the Astronomical Society of Japan, 2009, 61, 1375-1387. | 2.5 | 39 |
| 20 | Asymmetric impacts of near-Earth asteroids on the Moon. Astronomy and Astrophysics, 2010, 519, A63. | 5.1 | 39 |
| 21 | An Estimation of Upper Limit Masses of Ĩ... Andromedae Planets. Astrophysical Journal, 2001, 552, 372-379. | 4.5 | 38 |
| 22 | WAVELENGTH DEPENDENCE OF THE FORMATION OF SINGLE-STRAND BREAKS AND BASE CHANGES IN DNA BY THE ULTRAVIOLET RADIATION ABOVE 150 nm. Photochemistry and Photobiology, 1986, 44, 379-383. | 2.5 | 37 |
| 23 | Surface heterogeneity of 2005 UD from photometric observations. Astronomy and Astrophysics, 2007, 466, 1153-1158. | 5.1 | 37 |
| 24 | Extremely strong polarization of an active asteroid (3200) Phaethon. Nature Communications, 2018, 9, 2486. | 12.8 | 34 |
| 25 | Climate friction: A possible cause for secular drift of Earth's obliquity. Journal of Geophysical Research, 1995, 100, 15147-15161. | 3.3 | 27 |
| 26 | Dynamical transport of asteroid fragments from the Ĩ ¹ / ₂₆ resonance. Advances in Space Research, 2006, 38, 817-825. | 2.6 | 27 |
| 27 | Apollo Asteroids 1566 Icarus and 2007 MK ₆ : Icarus Family Members?. Astrophysical Journal, 2007, 668, L71-L74. | 4.5 | 27 |
| 28 | SINGLE-STRAND BREAKS IN SUPERCOILED DNA INDUCED BY VACUUM-UV RADIATION IN AQUEOUS SOLUTION. Photochemistry and Photobiology, 1986, 44, 397-400. | 2.5 | 26 |
| 29 | PHOTODYNAMIC ACTION OF HEMATOPORPHYRIN ON YEAST CELLSâ€”A KINETIC APPROACH. Photochemistry and Photobiology, 1981, 34, 521-524. | 2.5 | 25 |
| 30 | THE DEPENDENCE OF PHOTSENSITIZING EFFICACY OF ACRIDINE ORANGE AND TOLUIDINE BLUE ON THE DEGREE OF SENSITIZER-CELL INTERACTION. Photochemistry and Photobiology, 1980, 31, 565-570. | 2.5 | 24 |
| 31 | On the Error Reduction of a Simple Symplectic Integrator. Publication of the Astronomical Society of Japan, 2012, 64, 35. | 2.5 | 23 |
| 32 | POSSIBLE INVOLVEMENT OF MEMBRANE DAMAGE IN THE IN ACTIVATION BY BROADâ€”BAND NEARâ€”UV RADIATION IN <i>Saccharomyces cerevisiae</i> CELLS. Photochemistry and Photobiology, 1983, 37, 385-401. | 2.5 | 22 |
| 33 | Mature and Fresh Surfaces on the Newborn Asteroid Karin. Astrophysical Journal, 2004, 615, L161-L164. | 4.5 | 22 |
| 34 | Constraining the Formation of the Four Terrestrial Planets in the Solar System. Astrophysical Journal, 2019, 883, 130. | 4.5 | 22 |
| 35 | A SURVEY OF PHOTOPRODUCTS OF AN IRRADIATED OLIGODEOXYNUCLEOTIDE BY MONOCHROMATIC PHOTONS WITH THE ENERGY RANGED FROM 6.5 TO 22.5 eV. Photochemistry and Photobiology, 1987, 46, 979-984. | 2.5 | 20 |
| 36 | Photometric Observations of a Very Young Family-Member Asteroid (832) Karin. Publication of the Astronomical Society of Japan, 2004, 56, 1105-1113. | 2.5 | 20 |

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|----|--|-----|-----------|
| 37 | ENHANCEMENT OF PORPHYRIN-PHOTOSENSITIZATION OF YEAST CELLS BY ETHANOL. Photochemistry and Photobiology, 1984, 40, 429-434. | 2.5 | 19 |
| 38 | ACTION SPECTRA FOR IN ACTIVATION AND MEMBRANE DAMAGE OF <i>Saccharomyces cerevisiae</i> CELLS IRRADIATED IN VACUUM BY MONOCHROMATIC SYNCHROTRON UV RADIATION (155-250 nm). Photochemistry and Photobiology, 1986, 44, 409-411. | 2.5 | 18 |
| 39 | DEGRADATION OF OLIGONUCLEOTIDES BY VACUUM-UV RADIATION IN SOLID: ROLES OF THE PHOSPHATE GROUP AND BASES. Photochemistry and Photobiology, 1988, 48, 567-572. | 2.5 | 18 |
| 40 | WAVELENGTH DEPENDENCE FOR THE INACTIVATION OF ATP IN THE VACUUM-ULTRAVIOLET REGION ABOVE 140 nm. Photochemistry and Photobiology, 1986, 44, 273-277. | 2.5 | 17 |
| 41 | Quasi-Hilda comet 147P/Kushida-Muramatsu. Astronomy and Astrophysics, 2008, 489, 1355-1362. | 5.1 | 17 |
| 42 | Optical observations of NEA 3200 Phaethon (1983 TB) during the 2017 apparition. Astronomy and Astrophysics, 2018, 619, A123. | 5.1 | 16 |
| 43 | CHOICE OF COATINGS FOR THE OPTICAL ELEMENTS IN THE IRRADIATION SYSTEM OF VACUUM-ULTRAVIOLET RADIATION ABOVE 50 nm. Photochemistry and Photobiology, 1986, 44, 417-419. | 2.5 | 15 |
| 44 | PHOTOACOUSTIC SPECTRA OF SOME BIOLOGICAL MOLECULES BETWEEN 300 AND 130 nm. Photochemistry and Photobiology, 1986, 44, 303-306. | 2.5 | 14 |
| 45 | A STUDY OF AQUEOUS SOLUTIONS OF NUCLEIC ACID CONSTITUENTS EXPOSED TO MONOCHROMATIC 160 nm VACUUM-UV LIGHT BY SPIN-TRAPPING METHOD. Photochemistry and Photobiology, 1986, 44, 265-272. | 2.5 | 13 |
| 46 | Chaos and stability of the solar system. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 12342-12343. | 7.1 | 13 |
| 47 | Subsystems in a Stable Planetary System. Publication of the Astronomical Society of Japan, 2007, 59, 989-1004. | 2.5 | 13 |
| 48 | Chaos in the inert Oort cloud. Astronomy and Astrophysics, 2019, 629, A95. | 5.1 | 13 |
| 49 | DOES MEMBRANE ATTACKING PHOTODYNAMIC ACTION REFLECT THE SO-CALLED PHASE TRANSITION?. Photochemistry and Photobiology, 1981, 33, 117-120. | 2.5 | 12 |
| 50 | A comparative study of size frequency distributions of Jupiter Trojans, Hildas and main belt asteroids: A clue to planet migration history. Planetary and Space Science, 2019, 169, 78-85. | 1.7 | 12 |
| 51 | FOSSIL. I. The Spin Rate Limit of Jupiter Trojans. Planetary Science Journal, 2021, 2, 191. | 3.6 | 11 |
| 52 | VACUUM-ULTRAVIOLET PHOTOACOUSTIC SPECTROSCOPY OF BIOLOGICAL MATERIALS USING SYNCHROTRON RADIATION AS A LIGHT SOURCE. Photochemistry and Photobiology, 1985, 41, 527-533. | 2.5 | 10 |
| 53 | Spin rates of fast-rotating asteroids and fragments in impact disruption. Icarus, 2009, 200, 694-697. | 2.5 | 10 |
| 54 | Multi-band photometry of trans-Neptunian objects in the Subaru Hyper Suprime-Cam survey. Publication of the Astronomical Society of Japan, 2018, 70, . | 2.5 | 10 |

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| 55 | The "memory" of the Oort cloud. <i>Astronomy and Astrophysics</i> , 2018, 620, A45. | 5.1 | 10 |
| 56 | Q-type asteroids: Possibility of non-fresh weathered surfaces. <i>Publication of the Astronomical Society of Japan</i> , 2019, 71, . | 2.5 | 10 |
| 57 | Parallelized extrapolation method and its application to the orbital dynamics.. <i>Astronomical Journal</i> , 1997, 114, 1260. | 4.7 | 10 |
| 58 | Induced cotton effects of tRNA-acridine orange complex and tRNA conformation. <i>Biopolymers</i> , 1972, 11, 1583-1592. | 2.4 | 9 |
| 59 | Stability of Terrestrial Protoplanet Systems and Alignment of Orbital Elements. <i>Publication of the Astronomical Society of Japan</i> , 2001, 53, 143-151. | 2.5 | 9 |
| 60 | CELL SURFACE DAMAGE IN CULTURED MAMMALIAN CELLS WITH SYNCHROTRON RADIATION AT 160 nm. <i>Photochemistry and Photobiology</i> , 1986, 44, 405-407. | 2.5 | 8 |
| 61 | Color Variation of a Very Young Asteroid, Karin. <i>Publication of the Astronomical Society of Japan</i> , 2007, 59, 269-275. | 2.5 | 8 |
| 62 | Excited-state evolution probed by convoy-electron emission in relativistic heavy-ion collisions. <i>Physical Review A</i> , 2003, 68, . | 2.5 | 7 |
| 63 | High-Order Analytic Expansion of Disturbing Function for Doubly Averaged Circular Restricted Three-Body Problem. <i>Advances in Astronomy</i> , 2016, 2016, 1-23. | 1.1 | 7 |
| 64 | Polarimetric properties of the near-Sun asteroid (155140) 2005 UD in comparison with other asteroids and meteoritic samples. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 4128-4142. | 4.4 | 7 |
| 65 | Enzymatic quantification of strand breaks of DNA induced by vacuum-UV radiation. <i>FEBS Letters</i> , 1986, 206, 151-153. | 2.8 | 6 |
| 66 | FAST ROTATION OF A SUBKILOMETER-SIZED NEAR-EARTH OBJECT 2011 XA ₃ . <i>Astronomical Journal</i> , 2014, 147, 121. | 4.7 | 6 |
| 67 | Long Term Evolution of the Solar Insolation Variation over 4Ga.. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 1993, 69, 233-237. | 3.8 | 5 |
| 68 | Release of P and K from Yeast cells irradiated by vacuum UV Below 170 nm. <i>Radiation and Environmental Biophysics</i> , 1984, 23, 287-294. | 1.4 | 4 |
| 69 | A concept of hazardous NEO detection and impact warning system. <i>Acta Astronautica</i> , 2019, 156, 284-296. | 3.2 | 4 |
| 70 | Full rotationally phase-resolved visible reflectance spectroscopy of 3200 Phaethon. <i>Planetary and Space Science</i> , 2020, 191, 104940. | 1.7 | 4 |
| 71 | Pluto near the edge of chaos. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2118692119. | 7.1 | 4 |
| 72 | DIFFERENCE IN DEGREE OF SPACE WEATHERING ON NEWBORN ASTEROID KARIN. , 2006, , 331-336. | | 3 |

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| 73 | FOSSIL. II. The Rotation Periods of Small-sized Hilda Asteroids. Astrophysical Journal, Supplement Series, 2022, 259, 7. | 7.7 | 3 |
| 74 | ULTRAVIOLET PHOTOBIOLOGY AND SPECTROSCOPY USING SYNCHROTRON RADIATION. Photochemistry and Photobiology, 1986, 44, 235-236. | 2.5 | 2 |
| 75 | A newborn asteroid 832 Karin with old and new surfaces “ SUBARU spectroscopy. Advances in Space Research, 2006, 38, 1995-1999. | 2.6 | 2 |
| 76 | Do Meteoroids Originating from Near-Earth Asteroid (25143) Itokawa Exist?. Publication of the Astronomical Society of Japan, 2011, 63, L73-L77. | 2.5 | 2 |
| 77 | Lightcurves of the Karin family asteroids. Icarus, 2016, 269, 15-22. | 2.5 | 2 |
| 78 | THE BEARING OF FRACTIONAL-BODY MUTATIONS ON THE MUTATIONAL LOAD. Japanese Journal of Genetics, 1967, 42, 221-226. | 1.0 | 1 |
| 79 | The Temperature Dependence of Gamma-Ray Responses of YAG:Ce Ceramic Scintillators. , 0, , . | | 1 |
| 80 | Insolation Variations and Ice Age Cycles in the Quaternary. Journal of Geography (Chigaku Zasshi), 2007, 116, 768-782. | 0.3 | 1 |
| 81 | ASYMMETRIC IMPACTS OF NEAR-EARTH ASTEROIDS ON THE MOON. , 2009, , 107-117. | | 1 |
| 82 | NEAR-INFRARED LIGHTCURVES OF A VERY YOUNG ASTEROID, KARIN. , 0, , 285-294. | | 0 |
| 83 | Report On the ADAC Astronomical Catalog Data Service System. Open Astronomy, 1997, 6, . | 0.6 | 0 |
| 84 | An Astronomical Data Archive System with a Java-Based User Interface. Publication of the Astronomical Society of Japan, 1999, 51, 693-701. | 2.5 | 0 |
| 85 | SIZE DISTRIBUTION OF ASTEROIDS AND OLD TERRESTRIAL CRATERS: IMPLICATIONS FOR ASTEROIDAL DYNAMICS DURING LHB. , 2006, , 337-343. | | 0 |
| 86 | LIGHTCURVES OF THE KARIN FAMILY ASTEROIDS. , 2006, , 317-329. | | 0 |
| 87 | ASYMMETRIC CRATERING ON THE MOON: NUMERICAL RESULT FROM A NEW NEA FLUX MODEL. , 2012, , 1-13. | | 0 |
| 88 | New NEO search technology using small telescopes and FPGA. , 2018, , . | | 0 |
| 89 | The “memory” of the Oort cloud <i>(Corrigendum)</i>. Astronomy and Astrophysics, 2019, 623, C1. | 5.1 | 0 |
| 90 | PHOTOMETRIC OBSERVATIONS OF YOUNG ASTEROID FAMILIES AT MAIDANAK OBSERVATORY. , 2009, , 119-131. | | 0 |