# SÅ‚awomir Breiter

List of Publications by Year
in descending order



| 59 | 929 | 430874 | 526287 |
|---|---|---|---|
| papers | citations | 18 h-index | 27 g-index |

| 61 | 61 | 61 | 637 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | New findings on asteroid spin-vector distributions. Icarus, 2007, 192, 223-237. | 2.5 | 60 |
| 2 | Generalized YORP evolution: Onset of tumbling and new asymptotic states. Icarus, 2007, 191, 636-650. | 2.5 | 54 |
| 3 | Spurious structures in chaos indicators maps. Chaos, Solitons and Fractals, 2009, 40, 1697-1714. | 5.1 | 48 |
| 4 | The long-term stability of extrasolar system HDâ€ƒ37124. Numerical study of resonance effects. Monthly Notices of the Royal Astronomical Society, 0, 383, 989-999. | 4.4 | 43 |
| 5 | Analysis of the rotation period of asteroids (1865)ÂCerberus, (2100)ÂRa-Shalom, and (3103)ÂEger â€“ search for the YORP effect. Astronomy and Astrophysics, 2012, 547, A10. | 5.1 | 43 |
| 6 | Lunisolar Resonances Revisited. Celestial Mechanics and Dynamical Astronomy, 2001, 81, 81-91. | 1.4 | 41 |
| 7 | Vectorial elements for the Galactic disc tide effects in cometary motion. Monthly Notices of the Royal Astronomical Society, 2005, 364, 1222-1228. | 4.4 | 39 |
| 8 | Synchronous motion in the Kinoshita problem. Astronomy and Astrophysics, 2005, 437, 753-764. | 5.1 | 37 |
| 9 | Double Material Segment as the Model of Irregular Bodies. Celestial Mechanics and Dynamical Astronomy, 2003, 86, 131-141. | 1.4 | 36 |
| 10 | The YORP effect on 25â€‰143 Itokawa. Astronomy and Astrophysics, 2009, 507, 1073-1081. | 5.1 | 32 |
| 11 | Long-term predictability of orbits around the geosynchronous altitude. Advances in Space Research, 2005, 35, 1313-1317. | 2.6 | 31 |
| 12 | Lunisolar Apsidal Resonances at low Satellite Orbits. Celestial Mechanics and Dynamical Astronomy, 1999, 74, 253-274. | 1.4 | 23 |
| 13 | Efficient Lie-Poisson Integrator for Secular Spin Dynamics of Rigid Bodies. Astronomical Journal, 2005, 130, 1267-1277. | 4.7 | 23 |
| 14 | Unified analytical solutions to two-body problems with drag. Monthly Notices of the Royal Astronomical Society, 1998, 299, 237-243. | 4.4 | 22 |
| 15 | On the coupling of lunisolar resonances for Earth satellite orbits. Celestial Mechanics and Dynamical Astronomy, 2001, 80, 1-20. | 1.4 | 21 |
| 16 | Ellipsoids, material points and material segments. Celestial Mechanics and Dynamical Astronomy, 2006, 96, 31-48. | 1.4 | 21 |
| 17 | Eclipsing binary asteroid 90 Antiope. Astronomy and Astrophysics, 2004, 423, 1159-1168. | 5.1 | 20 |
| 18 | Stress field and spin axis relaxation for inelastic triaxial ellipsoids. Monthly Notices of the Royal Astronomical Society, 2012, 427, 755-769. | 4.4 | 20 |

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|---|---|---|---|
| 19 | Regular and chaotic motion of high altitude satellites. Advances in Space Research, 2007, 40, 134-142. | 2.6 | 19 |
| 20 | Yarkovsky-Oâ€™Keefe-Radzievskii-Paddack effect on tumbling objects. Monthly Notices of the Royal Astronomical Society, 2011, 417, 2478-2499. | 4.4 | 17 |
| 21 | Radiation-induced torques on spheroids. Astronomy and Astrophysics, 2007, 471, 345-353. | 5.1 | 14 |
| 22 | Two fast integrators for the Galactic tide effects in the Oort Cloud. Monthly Notices of the Royal Astronomical Society, 2007, 377, 1151-1162. | 4.4 | 14 |
| 23 | Resonant dynamics of gravitationally bound pair of binaries: the case of 1:1 resonance. Monthly Notices of the Royal Astronomical Society, 2018, 475, 5215-5230. | 4.4 | 14 |
| 24 | Analytical YORP torques model with an improved temperature distribution function. Monthly Notices of the Royal Astronomical Society, 2010, 401, 1933-1949. | 4.4 | 13 |
| 25 | Tesseral harmonic perturbations in radial transverse and binormal components. Celestial Mechanics and Dynamical Astronomy, 1990, 48, 375-385. | 1.4 | 12 |
| 26 | Extended Fundamental Model of Resonance. Celestial Mechanics and Dynamical Astronomy, 2003, 85, 209-218. | 1.4 | 12 |
| 27 | Stationary orbits of comets perturbed by Galactic tides. Monthly Notices of the Royal Astronomical Society, 2008, 383, 200-208. | 4.4 | 12 |
| 28 | YORP torque as the function of shape harmonics. Monthly Notices of the Royal Astronomical Society, 2008, 388, 927-944. | 4.4 | 12 |
| 29 | Yarkovsky-O'Keefe-Radzievskii-Paddack effect with anisotropic radiation. Monthly Notices of the Royal Astronomical Society, 2011, 410, 2807-2816. | 4.4 | 12 |
| 30 | YORP torques with 1D thermal model. Monthly Notices of the Royal Astronomical Society, 2010, 408, 1576-1589. | 4.4 | 11 |
| 31 | Secular motion in a hierarchic triple stellar system. Monthly Notices of the Royal Astronomical Society, 2015, 449, 1691-1703. | 4.4 | 11 |
| 32 | Tumbling asteroid rotation with the YORP torque and inelastic energy dissipation. Monthly Notices of the Royal Astronomical Society, 2015, 449, 2489-2497. | 4.4 | 10 |
| 33 | The Prograde C7 Resonance for Earth and Mars Satellite Orbits. Celestial Mechanics and Dynamical Astronomy, 2000, 77, 201-214. | 1.4 | 9 |
| 34 | SECOND-ORDER SOLUTION FOR THE ZONAL PROBLEM OF SATELLITE THEORY. Celestial Mechanics and Dynamical Astronomy, 1997, 67, 237-249. | 1.4 | 8 |
| 35 | Symplectic Mapping for Satellites and Space Debris Including Nongravitational Forces. Celestial Mechanics and Dynamical Astronomy, 1998, 71, 79-94. | 1.4 | 8 |
| 36 | Explicit Symplectic Integrator for Highly Eccentric Orbits. Celestial Mechanics and Dynamical Astronomy, 1998, 71, 229-241. | 1.4 | 8 |

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|---|---|---|---|
| 37 | Critical inclination in the main problem of a massive satellite. Celestial Mechanics and Dynamical Astronomy, 2006, 95, 287-297. | 1.4 | 8 |
| 38 | Analytical solution of the Colombo top problem. Celestial Mechanics and Dynamical Astronomy, 2020, 132, 1. | 1.4 | 8 |
| 39 | Kustaanheimoâ€“Stiefel transformation with an arbitrary defining vector. Celestial Mechanics and Dynamical Astronomy, 2017, 128, 323-342. | 1.4 | 7 |
| 40 | On the numerical transformation of variables in perturbation theory. Celestial Mechanics and Dynamical Astronomy, 1997, 65, 345-354. | 1.4 | 6 |
| 41 | Lunisolar Resonances Revisited. , 2001, , 81-91. | | 6 |
| 42 | Galactic and stellar perturbations of long-period comet motion. Astronomy and Astrophysics, 2022, 657, A65. | 5.1 | 6 |
| 43 | The motion of natural and artificial satellites in Mars gravity field. Advances in Space Research, 1991, 11, 183-188. | 2.6 | 5 |
| 44 | Keplerian expansions in terms of Henrard's practical variables. Celestial Mechanics and Dynamical Astronomy, 1994, 58, 237-244. | 1.4 | 5 |
| 45 | Pseudo-oscillator with a quartic perturbation. Mechanics Research Communications, 2001, 28, 119-126. | 1.8 | 5 |
| 46 | The extended Lissajousâ€“Levi-Civita transformation. Celestial Mechanics and Dynamical Astronomy, 2018, 130, 1. | 1.4 | 5 |
| 47 | The Lissajousâ€“Kustaanheimoâ€“Stiefel transformation. Celestial Mechanics and Dynamical Astronomy, 2019, 131, 1. | 1.4 | 5 |
| 48 | First-order theory of weakly eccentric orbital motion. Celestial Mechanics and Dynamical Astronomy, 1994, 60, 191-206. | 1.4 | 4 |
| 49 | Long-term evolution of disposal orbits beyond the geostationary ring. Advances in Space Research, 2001, 28, 1409-1414. | 2.6 | 4 |
| 50 | Generalized Hansen Coefficients. Celestial Mechanics and Dynamical Astronomy, 2004, 88, 153-161. | 1.4 | 4 |
| 51 | Orbital similarity functions - application to asteroid pairs. Monthly Notices of the Royal Astronomical Society, 2010, , no-no. | 4.4 | 4 |
| 52 | Explicit Symplectic Integrator for Rotating Satellites. Celestial Mechanics and Dynamical Astronomy, 2000, 77, 127-137. | 1.4 | 3 |
| 53 | KS variables in rotating reference frame. Application to cometary dynamics. Astrophysics and Space Science, 2015, 357, 1. | 1.4 | 3 |
| 54 | Methods for the Study of the Dynamics of the Oort Cloud Comets II: Modelling the Galactic Tide. , 2007, , 273-296. | | 3 |

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|---|---|---|---|
| 55 | Ptolemaic Transformation in Keplerian Problem. Celestial Mechanics and Dynamical Astronomy, 2002, 84, 319-330. | 1.4 | 2 |
| 56 | Analytical investigation of the orbital structure close to the 1:1:1 resonance in spheroidal galaxies. Astronomy and Astrophysics, 2005, 431, 1145-1155. | 5.1 | 2 |
| 57 | Radiation-induced torques on spheroids. Astronomy and Astrophysics, 2008, 483, 939-939. | 5.1 | 1 |
| 58 | Semi-Analytical and Semi-Numerical Methods in Celestial Mechanics. International Astronomical Union Colloquium, 1997, 165, 411-418. | 0.1 | 0 |
| 59 | Lommel Functions in some Drag-Perturbed Problems. International Astronomical Union Colloquium, 1999, 172, 437-438. | 0.1 | 0 |