

# Smadar Naoz

## List of Publications by Year in descending order

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84  
papers

5,508  
citations

101384

36  
h-index

82410

72  
g-index

87  
all docs

87  
docs citations

87  
times ranked

3924  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | The Combined Effects of Two-body Relaxation Processes and the Eccentric Kozai-Lidov Mechanism on the Extreme-mass-ratio Inspirals Rate. <i>Astrophysical Journal Letters</i> , 2022, 927, L18. | 3.0  | 13        |
| 2  | $H_2$ Cooling and Gravitational Collapse of Supersonically Induced Gas Objects. <i>Astrophysical Journal Letters</i> , 2022, 927, L12.   | 3.0  | 6         |
| 3  | Kepler-1656b's Extreme Eccentricity: Signature of a Gentle Giant. <i>Astronomical Journal</i> , 2022, 163, 227.  | 1.9  | 5         |
| 4  | The Formation of Intermediate-mass Black Holes in Galactic Nuclei. <i>Astrophysical Journal Letters</i> , 2022, 929, L22.  | 3.0  | 26        |
| 5  | Hiding Planets Near and Far: The Parameter Space of Hidden Companions for Known Planetary Systems. <i>Astrophysical Journal</i> , 2022, 932, 78.   | 1.6  | 2         |
| 6  | The Supersonic Project: To Cool or Not to Cool Supersonically Induced Gas Objects (SIGOs)?. <i>Astrophysical Journal</i> , 2021, 906, 25.  | 1.6  | 10        |
| 7  | Modeling Turbulence in Galactic Centers. <i>Astronomical Journal</i> , 2021, 161, 243.   | 1.9  | 7         |
| 8  | Gravitational-wave Signatures from Compact Object Binaries in the Galactic Center. <i>Astrophysical Journal</i> , 2021, 917, 76.   | 1.6  | 17        |
| 9  | Effects of Turbulence in the Circumnuclear Disk. <i>Astrophysical Journal</i> , 2021, 920, 79.   | 1.6  | 5         |
| 10 | Giant Planets, Tiny Stars: Producing Short-period Planets around White Dwarfs with the Eccentric Kozai-Lidov Mechanism. <i>Astrophysical Journal</i> , 2021, 922, 4.                           | 1.6  | 21        |
| 11 | The Supersonic Project: SIGOs, A Proposed Progenitor to Globular Clusters, and Their Connections to Gravitational-wave Anisotropies. <i>Astrophysical Journal</i> , 2021, 922, 86.             | 1.6  | 9         |
| 12 | Relativistic Dynamical Stability Criterion of Multiplanet Systems with a Distant Companion. <i>Astrophysical Journal</i> , 2021, 923, 118.   | 1.6  | 6         |
| 13 | The stationary points of the hierarchical three-body problem. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 1682-1700.   | 1.6  | 16        |
| 14 | Eating Planets for Lunch and Dinner: Signatures of Planet Consumption by Evolving Stars. <i>Astrophysical Journal</i> , 2020, 889, 45.   | 1.6  | 29        |
| 15 | A population of dust-enshrouded objects orbiting the Galactic black hole. <i>Nature</i> , 2020, 577, 337-340.  | 13.7 | 44        |
| 16 | A Hidden Friend for the Galactic Center Black Hole, Sgr A*. <i>Astrophysical Journal Letters</i> , 2020, 888, L8.  | 3.0  | 41        |
| 17 | Demographics of Triple Systems in Dense Star Clusters. <i>Astrophysical Journal</i> , 2020, 900, 16.   | 1.6  | 19        |
| 18 | Detecting Kozai-Lidov Imprints on the Gravitational Waves of Intermediate-mass Black Holes in Galactic Nuclei. <i>Astrophysical Journal</i> , 2020, 901, 125.                                  | 1.6  | 25        |

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|----|---|-----|-----------|
| 19 | Neutron Star–Black Hole Mergers from Gravitational-wave Captures. <i>Astrophysical Journal</i> , 2020, 903, 8.  | 1.6 | 21        |
| 20 | Black Hole Mergers from Hierarchical Triples in Dense Star Clusters. <i>Astrophysical Journal</i> , 2020, 903, 67.  | 1.6 | 50        |
| 21 | On Socially Distant Neighbors: Using Binaries to Constrain the Density of Objects in the Galactic Center. <i>Astrophysical Journal</i> , 2020, 904, 113.  | 1.6 | 18        |
| 22 | The Fate of Binaries in the Galactic Center: The Mundane and the Exotic. <i>Astrophysical Journal</i> , 2019, 878, 58.  | 1.6 | 58        |
| 23 | Unseen companions of V Hya inferred from periodic ejections. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 3029-3036.   | 1.6 | 10        |
| 24 | Inverse Lidov-Kozai resonance for an outer test particle due to an eccentric perturber. <i>Astronomy and Astrophysics</i> , 2019, 627, A17.   | 2.1 | 20        |
| 25 | Relativistic redshift of the star S0-2 orbiting the Galactic Center supermassive black hole. <i>Science</i> , 2019, 365, 664-668.   | 6.0 | 270       |
| 26 | Dark Matter Signatures of Supermassive Black Hole Binaries. <i>Astrophysical Journal Letters</i> , 2019, 885, L35.  | 3.0 | 9         |
| 27 | The Supersonic Project: Shining Light on SIGOs—A New Formation Channel for Globular Clusters. <i>Astrophysical Journal Letters</i> , 2019, 878, L23.  | 3.0 | 24        |
| 28 | Interacting young M-dwarfs in triple system — Par 1802 binary system case study. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 2298-2306.                                   | 1.6 | 3         |
| 29 | Companion-driven evolution of massive stellar binaries. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 2480-2492.  | 1.6 | 19        |
| 30 | Detecting Supermassive Black Hole–induced Binary Eccentricity Oscillations with LISA. <i>Astrophysical Journal Letters</i> , 2019, 875, L31.  | 3.0 | 52        |
| 31 | Hidden planetary friends: on the stability of two-planet systems in the presence of a distant, inclined companion. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 4146-4154. | 1.6 | 27        |
| 32 | Black Hole Mergers in Galactic Nuclei Induced by the Eccentric Kozai–Lidov Effect. <i>Astrophysical Journal</i> , 2018, 856, 140.   | 1.6 | 210       |
| 33 | Investigating the Binariness of S0-2: Implications for Its Origins and Robustness as a Probe of the Laws of Gravity around a Supermassive Black Hole. <i>Astrophysical Journal</i> , 2018, 854, 12. | 1.6 | 48        |
| 34 | Understanding Large-scale Structure in the SSA22 Protocluster Region Using Cosmological Simulations. <i>Astrophysical Journal</i> , 2018, 852, 134.   | 1.6 | 16        |
| 35 | Confusing Binaries: The Role of Stellar Binaries in Biasing Disk Properties in the Galactic Center. <i>Astrophysical Journal Letters</i> , 2018, 853, L24.  | 3.0 | 28        |
| 36 | The Supersonic Project: rotational effects of supersonic motions on the first structures in the Universe. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 3108-3117.          | 1.6 | 14        |

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|----|--|-----|-----------|
| 37 | A-type Stars, the Destroyers of Worlds: The Lives and Deaths of Jupiters in Evolving Stellar Binaries. <i>Astronomical Journal</i> , 2018, 156, 128.                                     | 1.9 | 42        |
| 38 | Signature of Planetary Mergers on Stellar Spins. <i>Astrophysical Journal</i> , 2018, 864, 65.   | 1.6 | 16        |
| 39 | The role of general relativity on icy body reservoirs under the effects of an inner eccentric Jupiter. <i>Astronomy and Astrophysics</i> , 2018, 615, A21.                               | 2.1 | 18        |
| 40 | HD 106906: A Case Study for External Perturbations of a Debris Disk. <i>Astrophysical Journal Letters</i> , 2017, 837, L6.   | 3.0 | 46        |
| 41 | Effects of an eccentric inner Jupiter on the dynamical evolution of icy body reservoirs in a planetary scattering scenario. <i>Astronomy and Astrophysics</i> , 2017, 605, A64.          | 2.1 | 17        |
| 42 | The Post-periapsis Evolution of Galactic Center Source G1: The Second Case of a Resolved Tidal Interaction with a Supermassive Black Hole. <i>Astrophysical Journal</i> , 2017, 847, 80. | 1.6 | 30        |
| 43 | Roche-lobe Overflow in Eccentric Planet-Star Systems. <i>Astrophysical Journal</i> , 2017, 844, 12.  | 1.6 | 33        |
| 44 | Throwing Icebergs at White Dwarfs. <i>Astrophysical Journal Letters</i> , 2017, 844, L16.  | 3.0 | 88        |
| 45 | The Eccentric Kozai-Lidov Mechanism for Outer Test Particle. <i>Astronomical Journal</i> , 2017, 154, 18.  | 1.9 | 86        |
| 46 | Testing General Relativity with Stellar Orbits around the Supermassive Black Hole in Our Galactic Center. <i>Physical Review Letters</i> , 2017, 118, 211101.                            | 2.9 | 173       |
| 47 | Eclipsing Stellar Binaries in the Galactic Center. <i>Astrophysical Journal</i> , 2017, 851, 131.  | 1.6 | 8         |
| 48 | FORMATION OF BLACK HOLE LOW-MASS X-RAY BINARIES IN HIERARCHICAL TRIPLE SYSTEMS. <i>Astrophysical Journal Letters</i> , 2016, 822, L24.   | 3.0 | 40        |
| 49 | The Eccentric Kozai-Lidov Effect and Its Applications. <i>Annual Review of Astronomy and Astrophysics</i> , 2016, 54, 441-489.   | 8.1 | 501       |
| 50 | CIRCUMSTELLAR DEBRIS DISKS: DIAGNOSING THE UNSEEN PERTURBER. <i>Astrophysical Journal</i> , 2016, 826, 19.   | 1.6 | 53        |
| 51 | Gas-rich and gas-poor structures through the stream velocity effect. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 460, 1625-1639.                                    | 1.6 | 26        |
| 52 | Merging binaries in the Galactic Center: the eccentric Kozai-Lidov mechanism with stellar evolution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 460, 3494-3504.    | 1.6 | 122       |
| 53 | Dynamical Effects of Stellar Companions. <i>Proceedings of the International Astronomical Union</i> , 2015, 11, 65-70.   | 0.0 | 0         |
| 54 | Jupiter's role in sculpting the early Solar System. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 4189-4190.                       | 3.3 | 2         |

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|----|--|------|-----------|
| 55 | Implications of the eccentric Kozai-Lidov mechanism for stars surrounding supermassive black hole binaries. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 451, 1341-1349.     | 1.6  | 56        |
| 56 | ECCENTRICITY GROWTH AND ORBIT FLIP IN NEAR-COPLANAR HIERARCHICAL THREE-BODY SYSTEMS. <i>Astrophysical Journal</i> , 2014, 785, 116.  | 1.6  | 152       |
| 57 | GLOBULAR CLUSTERS AND DARK SATELLITE GALAXIES THROUGH THE STREAM VELOCITY. <i>Astrophysical Journal Letters</i> , 2014, 791, L8.   | 3.0  | 37        |
| 58 | MERGERS AND OBLIQUITIES IN STELLAR TRIPLES. <i>Astrophysical Journal</i> , 2014, 793, 137.   | 1.6  | 166       |
| 59 | CHAOS IN THE TEST PARTICLE ECCENTRIC KOZAI-LIDOV MECHANISM. <i>Astrophysical Journal</i> , 2014, 791, 86.  | 1.6  | 115       |
| 60 | DETECTION OF GALACTIC CENTER SOURCE G2 AT 3.8 $\mu$ m DURING PERIAPSE PASSAGE. <i>Astrophysical Journal Letters</i> , 2014, 796, L8.   | 3.0  | 81        |
| 61 | FORMATION OF DARK MATTER TORI AROUND SUPERMASSIVE BLACK HOLES VIA THE ECCENTRIC KOZAI-LIDOV MECHANISM. <i>Astrophysical Journal</i> , 2014, 795, 102.  | 1.6  | 23        |
| 62 | THE DYNAMICS OF THE MULTI-PLANET SYSTEM ORBITING KEPLER-56. <i>Astrophysical Journal</i> , 2014, 794, 131.   | 1.6  | 40        |
| 63 | Generation of Primordial Magnetic Fields on Linear Overdensity Scales. <i>Physical Review Letters</i> , 2013, 111, 051303.   | 2.9  | 58        |
| 64 | EXTREME ORBITAL EVOLUTION FROM HIERARCHICAL SECULAR COUPLING OF TWO GIANT PLANETS. <i>Astrophysical Journal</i> , 2013, 779, 166.  | 1.6  | 86        |
| 65 | Secular dynamics in hierarchical three-body systems. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 431, 2155-2171.  | 1.6  | 308       |
| 66 | ENERGY FEEDBACK FROM X-RAY BINARIES IN THE EARLY UNIVERSE. <i>Astrophysical Journal Letters</i> , 2013, 776, L31.  | 3.0  | 164       |
| 67 | RESONANT POST-NEWTONIAN ECCENTRICITY EXCITATION IN HIERARCHICAL THREE-BODY SYSTEMS. <i>Astrophysical Journal</i> , 2013, 773, 187.   | 1.6  | 215       |
| 68 | SIMULATIONS OF EARLY BARYONIC STRUCTURE FORMATION WITH STREAM VELOCITY. II. THE GAS FRACTION. <i>Astrophysical Journal</i> , 2013, 763, 27.  | 1.6  | 83        |
| 69 | SIMULATIONS OF EARLY BARYONIC STRUCTURE FORMATION WITH STREAM VELOCITY. I. HALO ABUNDANCE. <i>Astrophysical Journal</i> , 2012, 747, 128.  | 1.6  | 75        |
| 70 | ON THE FORMATION OF HOT JUPITERS IN STELLAR BINARIES. <i>Astrophysical Journal Letters</i> , 2012, 754, L36.   | 3.0  | 243       |
| 71 | The non-linear evolution of baryonic overdensities in the early universe: initial conditions of numerical simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, , no-no. | 1.6  | 17        |
| 72 | Hot Jupiters from secular planet-planet interactions. <i>Nature</i> , 2011, 473, 187-189.  | 13.7 | 407       |

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|----|--|-----|-----------|
| 73 | THE ECCENTRIC KOZAI MECHANISM FOR A TEST PARTICLE. <i>Astrophysical Journal</i> , 2011, 742, 94.   | 1.6 | 190       |
| 74 | The origin of retrograde hot Jupiters. <i>Proceedings of the International Astronomical Union</i> , 2010, 6, 263-266.                                  | 0.0 | 0         |
| 75 | THE OBSERVED ORBITAL PROPERTIES OF BINARY MINOR PLANETS. <i>Astrophysical Journal</i> , 2010, 719, 1775-1783.  | 1.6 | 51        |
| 76 | Gas in simulations of high-redshift galaxies and minihaloes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 399, 369-376.            | 1.6 | 35        |
| 77 | KOZAI CYCLES, TIDAL FRICTION, AND THE DYNAMICAL EVOLUTION OF BINARY MINOR PLANETS. <i>Astrophysical Journal</i> , 2009, 699, L17-L21.                  | 1.6 | 82        |
| 78 | Detecting early galaxies through their 21-cm signature. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2008, 385, L63-L67.        | 1.2 | 26        |
| 79 | Open cluster birth analysis and multiple spiral arm sets in the Milky Way. <i>New Astronomy</i> , 2007, 12, 410-421.                                   | 0.8 | 27        |
| 80 | The formation and gas content of high-redshift galaxies and minihaloes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 377, 667-676. | 1.6 | 62        |
| 81 | An observational limit on the earliest gamma-ray bursts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 380, 757-762.                | 1.6 | 21        |
| 82 | The first stars in the Universe. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2006, 373, L98-L102.                              | 1.2 | 72        |
| 83 | Growth of linear perturbations before the era of the first galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 362, 1047-1053.  | 1.6 | 90        |
| 84 | Supernovae Kicks in hierarchical triple systems. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, ,.                                      | 1.6 | 19        |