

Gang Zhang

List of Publications by Year in descending order

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116
papers

2,982
citations

257450

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197818

49
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116
all docs

116
docs citations

116
times ranked

3191
citing authors

#	ARTICLE	IF	CITATIONS
1	Reachable domain with a single coplanar impulse considering the target-visit constraint. <i>Advances in Space Research</i> , 2022, 69, 3847-3855.	2.6	5
2	Optimal low-thrust linearized elliptic orbit rendezvous considering the communication window. <i>Acta Astronautica</i> , 2022, 197, 14-22.	3.2	3
3	Analytical State Propagation for Continuous-Thrust Linear Relative Motion. <i>Journal of Guidance, Control, and Dynamics</i> , 2022, 45, 1946-1957.	2.8	6
4	Lambert's Problem with Multiple Constraints. <i>Journal of Aerospace Engineering</i> , 2022, 35, .	1.4	1
5	GTOC11: Methods and results from the team of Harbin Institute of Technology. <i>Acta Astronautica</i> , 2022, , .	3.2	0
6	Access to a Phthalazine Derivative Through an Angular <i>cis</i> -Quinacridone. <i>Journal of Organic Chemistry</i> , 2021, 86, 1198-1203.	3.2	7
7	Modulating the properties of buckybowls containing multiple heteroatoms. <i>Organic Chemistry Frontiers</i> , 2021, 8, 727-735.	4.5	27
8	Determining Essential Requirements for Fluorophore Selection in Various Fluorescence Applications Taking Advantage of Diverse Structure's Fluorescence Information of Chromone Derivatives. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 1001-1017.	6.4	14
9	Jupiter system exploration trajectory design: Summary of the winning solution at CTOC10. <i>Astrodynamics</i> , 2021, 5, 13-26.	2.4	7
10	Effect of Fusion Manner of Concave Molecules on the Properties of Resulting Nanoboats. <i>Organic Letters</i> , 2021, 23, 491-496.	4.6	21
11	8-cyanobenzothiazinone analogs with potent antitubercular activity. <i>Medicinal Chemistry Research</i> , 2021, 30, 449-458.	2.4	10
12	Isoimperatorin exerts anti-inflammatory activity by targeting the LPS-TLR4/MD-2-NF- κ B pathway. <i>European Journal of Inflammation</i> , 2021, 19, 205873922110005.	0.5	7
13	A covalent p97/VCP ATPase inhibitor can overcome resistance to CB-5083 and NMS-873 in colorectal cancer cells. <i>European Journal of Medicinal Chemistry</i> , 2021, 213, 113148.	5.5	15
14	Reachable Domain of Ground Track With a Single Impulse. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2021, 57, 1105-1122.	4.7	14
15	Synthesis, Structures and Properties of Angular <i>cis</i> Benzothiazinophenothiazine Derivatives. <i>ChemistrySelect</i> , 2021, 6, 4312-4318.	1.5	1
16	AAA ATPases as therapeutic targets: Structure, functions, and small-molecule inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2021, 219, 113446.	5.5	28
17	Multi-target ground-track adjustment with a single coplanar impulse. <i>Aerospace Science and Technology</i> , 2021, 119, 107135.	4.8	7
18	Two-target interception problem with a single impulse. <i>Aerospace Science and Technology</i> , 2021, 119, 107110.	4.8	7

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19	Synthesis and evaluation of benzenesulfonic acid derivatives as human neutrophil elastase (hNE) inhibitors. <i>Medicinal Chemistry Research</i> , 2021, 30, 387-398.	2.4	2
20	Quercetin amorphous solid dispersions prepared by hot melt extrusion with enhanced solubility and intestinal absorption. <i>Pharmaceutical Development and Technology</i> , 2020, 25, 472-481.	2.4	20
21	Molecular Insight into the Discrepancy of Antitubercular Activity between 8-Nitro and 8-Cyano Benzothiazinones. <i>ChemistrySelect</i> , 2020, 5, 13775-13779.	1.5	5
22	Benzoate Ester Functionalized Phenylenediamine Derivatives: Synthesis, Crystal Structure and Optical Properties. <i>ChemistrySelect</i> , 2020, 5, 9153-9161.	1.5	5
23	Synthesis, Structure and Properties of Fused π -Extended Acridone Derivatives. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 5455-5463.	2.4	9
24	Embedding Heteroatoms and Adjacent Pentagons in Concave Molecules. <i>Synlett</i> , 2020, 31, 1957-1961.	1.8	11
25	A Nanoboat with Fused Concave π -Heterotriangulene. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8963-8968.	13.8	38
26	One-pot synthesis of 1,3,5-triazine-2,4-dithione derivatives via three-component reactions. <i>Beilstein Journal of Organic Chemistry</i> , 2020, 16, 1447-1455.	2.2	6
27	Investigation into the Effects of Straw Retention and Nitrogen Reduction on CH ₄ and N ₂ O Emissions from Paddy Fields in the Lower Yangtze River Region, China. <i>Sustainability</i> , 2020, 12, 1683.	3.2	8
28	N-Substitution of acridone with electron-donating groups: crystal packing, intramolecular charge transfer and tuneable aggregation induced emission. <i>RSC Advances</i> , 2020, 10, 7092-7098.	3.6	18
29	Impulsive orbit correction using second-order Gauss's variational equations. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2020, 132, 1.	1.4	2
30	Terminal-Velocity-Based Lambert Algorithm. <i>Journal of Guidance, Control, and Dynamics</i> , 2020, 43, 1529-1539.	2.8	14
31	Patched shaping approach to low-thrust multi-revolution transfer design. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2019, 233, 2663-2672.	1.3	1
32	Macozinone: revised synthesis and crystal structure of a promising new drug for treating drug-sensitive and drug-resistant tuberculosis. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2019, 75, 1031-1035.	0.5	12
33	Effects of N-Substitution on the Property of Acridone. <i>ChemistrySelect</i> , 2019, 4, 7797-7804.	1.5	13
34	Initial Trajectory Design of Electric Solar Wind Sail Based on Finite Fourier Series Shape-Based Method. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2019, 55, 3674-3683.	4.7	27
35	Carbazole Dendrimers with Acridone at the Core and Periphery: Synthesis and Properties. <i>ChemistrySelect</i> , 2019, 4, 10536-10542.	1.5	5
36	New Solutions to Impulsive Correction for Argument of Perigee Using Gauss's Variational Equations. <i>Journal of Aerospace Engineering</i> , 2019, 32, .	1.4	3

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37	In Vitro Metabolism of Auricularin and Its Inhibitory Effects on Human Cytochrome P450 and UDP-Glucuronosyltransferase Enzymes. <i>Chemical Research in Toxicology</i> , 2019, 32, 2125-2134.	3.3	13
38	In vitro investigation of permeability and metabolism of licoricidin. <i>Life Sciences</i> , 2019, 234, 116770.	4.3	6
39	Proteolysis-targeting chimeras for targeting protein for degradation. <i>Future Medicinal Chemistry</i> , 2019, 11, 723-741.	2.3	14
40	Nitrogen-Centered Concave Molecules with Double Fused Pentagons. <i>Organic Letters</i> , 2019, 21, 5248-5251.	4.6	35
41	Design and Synthesis of Indoleamine 2,3-Dioxygenase 1 Inhibitors and Evaluation of Their Use as Anti-Tumor Agents. <i>Molecules</i> , 2019, 24, 2124.	3.8	18
42	Synthesis and Properties of Acridone Oligomers. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 3217-3223.	2.4	11
43	Electrode array and data density effects in 3D induced polarization tomography and applications for mineral exploration. <i>Arabian Journal of Geosciences</i> , 2019, 12, 1.	1.3	4
44	Spirocyclic and Bicyclic 8-Nitrobenzothiazinones for Tuberculosis with Improved Physicochemical and Pharmacokinetic Properties. <i>ACS Medicinal Chemistry Letters</i> , 2019, 10, 348-351.	2.8	32
45	A Cinchona Alkaloid Antibiotic That Appears To Target ATP Synthase in <i>Streptococcus pneumoniae</i> . <i>Journal of Medicinal Chemistry</i> , 2019, 62, 2305-2332.	6.4	24
46	Second-Order Integral-Form Gauss's Variational Equations Under Impulsive Control. <i>Journal of Guidance, Control, and Dynamics</i> , 2019, 42, 284-302.	2.8	9
47	Covariance analysis of Lambert's problem via Lagrange's transfer-time formulation. <i>Aerospace Science and Technology</i> , 2018, 77, 765-773.	4.8	18
48	Joint Interpretation of Geological, Magnetic, AMT, and ERT Data for Mineral Exploration in the Northeast of Inner Mongolia, China. <i>Pure and Applied Geophysics</i> , 2018, 175, 989-1002.	1.9	15
49	Identification of Diaryl-Quinoline Compounds as Entry Inhibitors of Ebola Virus. <i>Viruses</i> , 2018, 10, 678.	3.3	24
50	DNA damage and apoptosis induced by a potent orally podophyllotoxin derivative in breast cancer. <i>Cell Communication and Signaling</i> , 2018, 16, 52.	6.5	19
51	Virtual Screening of Small Molecular Inhibitors against DprE1. <i>Molecules</i> , 2018, 23, 524.	3.8	18
52	Exploration of the Fluorescent Properties and the Modulated Activities against Sirtuin Fluorogenic Assays of Chromenone-Derived Natural Products. <i>Molecules</i> , 2018, 23, 1063.	3.8	10
53	Minimizing the Effects of Impulsive Orbit Maneuver Uncertainty. <i>Journal of Aerospace Engineering</i> , 2018, 31, 04018055.	1.4	3
54	Out-of-plane effects in 2D borehole surface resistivity tomography and applications in mineral exploration. <i>Geophysical Prospecting</i> , 2017, 65, 1312-1332.	1.9	4

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55	Optimal short-range rendezvous using on-off constant thrust. <i>Aerospace Science and Technology</i> , 2017, 69, 209-217.	4.8	12
56	Metabolism and Metabolic Inhibition of Xanthotoxin in Human Liver Microsomes. <i>Evidence-based Complementary and Alternative Medicine</i> , 2016, 2016, 1-8.	1.2	3
57	Identification of the Metabolic Enzyme Involved in Morusin Metabolism and Characterization of Its Metabolites by Ultraperformance Liquid Chromatography Quadrupole Time-of-Flight Mass Spectrometry (UPLC/Q-TOF-MS/MS). <i>Evidence-based Complementary and Alternative Medicine</i> , 2016, 2016, 1-10.	1.2	16
58	The effective components of Huanglian Jiedu Decoction against sepsis evaluated by a lipid A-based affinity biosensor. <i>Journal of Ethnopharmacology</i> , 2016, 186, 369-376.	4.1	15
59	Shaping Approximation for Low-Thrust Trajectories with Large Out-of-Plane Motion. <i>Journal of Guidance, Control, and Dynamics</i> , 2016, 39, 2780-2789.	2.8	33
60	Impulsive Ground-Track Adjustment for Assigned Final Orbit. <i>Journal of Spacecraft and Rockets</i> , 2016, 53, 599-609.	1.9	10
61	Hydrogen-Bonded Chains and Networks of Triptycene-Based Triboronic Acid and Tripyridinone. <i>Crystal Growth and Design</i> , 2016, 16, 5542-5548.	3.0	12
62	The Diurnal Cycle of Warm Season Rainfall over West Africa. Part II: Convection-Permitting Simulations. <i>Journal of Climate</i> , 2016, 29, 8439-8454.	3.2	20
63	The Diurnal Cycle of Warm Season Rainfall over West Africa. Part I: Observational Analysis. <i>Journal of Climate</i> , 2016, 29, 8423-8437.	3.2	22
64	Facile Synthetic Approach to a Large Variety of Soluble Diarenoperylene. <i>Chemistry - A European Journal</i> , 2016, 22, 14840-14845.	3.3	56
65	Comparison of the in vitro metabolism of psoralidin among different species and characterization of its inhibitory effect against UDP-glucuronosyltransferase (UGT) or cytochrome p450 (CYP450) enzymes. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016, 1029-1030, 145-156.	2.3	24
66	Analytical approximate solutions to ground track adjustment for responsive space. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2016, 52, 1366-1383.	4.7	21
67	Fused π -Extended Truxenes via a Threefold Borylation as the Key Step. <i>Chemistry - A European Journal</i> , 2016, 22, 3084-3093.	3.3	29
68	Rigid Conjugated Twisted Truxene Dimers and Trimers as Electron Acceptors. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3977-3981.	13.8	34
69	Facile synthesis of SAM peptide conjugates through alkyl linkers targeting protein N-terminal methyltransferase 1. <i>RSC Advances</i> , 2016, 6, 6768-6771.	3.6	18
70	Coplanar ground-track adjustment using time difference. <i>Aerospace Science and Technology</i> , 2016, 48, 21-27.	4.8	12
71	The different metabolism of morusin in various species and its potent inhibition against UDP-glucuronosyltransferase (UGT) and cytochrome p450 (CYP450) enzymes. <i>Xenobiotica</i> , 2016, 46, 467-476.	1.1	26
72	Optimal Elliptic Orbital Maneuver with Continuous Radial Thrust on the Chaser Using Generating Functions. <i>Journal of Aerospace Engineering</i> , 2016, 29, 04015025.	1.4	0

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73	Modified inverse-polynomial shaping approach with thrust and radius constraints. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2015, 229, 2506-2518.	1.3	5
74	Minimum-Time Interception with a Tangent Impulse. Journal of Aerospace Engineering, 2015, 28, .	1.4	7
75	A direct, ratiometric, and quantitative MALDI-MS assay for protein methyltransferases and acetyltransferases. Analytical Biochemistry, 2015, 478, 59-64.	2.4	21
76	Design, synthesis, and kinetic analysis of potent protein N-terminal methyltransferase 1 inhibitors. Organic and Biomolecular Chemistry, 2015, 13, 4149-4154.	2.8	46
77	Simple Shaping Approximation for Low-Thrust Trajectories Between Coplanar Elliptical Orbits. Journal of Guidance, Control, and Dynamics, 2015, 38, 2448-2455.	2.8	31
78	Kinetic Mechanism of Protein N-terminal Methyltransferase 1. Journal of Biological Chemistry, 2015, 290, 11601-11610.	3.4	41
79	Two-impulse transfer between coplanar elliptic orbits using along-track thrust. Celestial Mechanics and Dynamical Astronomy, 2015, 121, 261-274.	1.4	4
80	Two-Impulse Cotangent Rendezvous Between Coplanar Elliptic and Hyperbolic Orbits. Journal of Guidance, Control, and Dynamics, 2014, 37, 964-970.	2.8	12
81	Comparison of the Inhibitory Potential of Bavachalcone and Corylin against UDP-Glucuronosyltransferases. Evidence-based Complementary and Alternative Medicine, 2014, 2014, 1-6.	1.2	16
82	Tangent-Impulse Interception for a Hyperbolic Target. Mathematical Problems in Engineering, 2014, 2014, 1-10.	1.1	1
83	A Permanent Mesoporous Organic Cage with an Exceptionally High Surface Area. Angewandte Chemie - International Edition, 2014, 53, 1516-1520.	13.8	363
84	Tangent-impulse transfer from elliptic orbit to an excess velocity vector. Chinese Journal of Aeronautics, 2014, 27, 577-583.	5.3	5
85	Optimal two-impulse rendezvous with terminal tangent burn considering the trajectory constraints. Advances in Space Research, 2014, 54, 734-743.	2.6	5
86	A Shape-Persistent Quadruply Interlocked Giant Cage Catenane with Two Distinct Pores in the Solid State. Angewandte Chemie - International Edition, 2014, 53, 5126-5130.	13.8	194
87	Organic cage compounds " from shape-persistency to function. Chemical Society Reviews, 2014, 43, 1934-1947.	38.1	551
88	West African monsoon demise: Climatology, interannual variations, and relationship to seasonal rainfall. Journal of Geophysical Research D: Atmospheres, 2014, 119, 10,175.	3.3	26
89	Optimal periodic relative orbit and rectilinear relative orbits with eccentric reference orbits. Celestial Mechanics and Dynamical Astronomy, 2013, 117, 137-148.	1.4	0
90	Salts of C ₆₀ (OH) ₈ Electrodeposited onto a Glassy Carbon Electrode: Surprising Catalytic Performance in the Hydrogen Evolution Reaction. Angewandte Chemie - International Edition, 2013, 52, 10867-10870.	13.8	98

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91	Reachable domain of spacecraft with a single tangent impulse considering trajectory safety. <i>Acta Astronautica</i> , 2013, 91, 228-236.	3.2	24
92	Regioselective Diels-Alder Reactions Directed by Carbonyl Groups on the Rim of Open-Cage Fullerene Derivatives. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 7272-7276.	2.4	7
93	Optimal Two-Impulse Cotangent Rendezvous Between Coplanar Elliptical Orbits. <i>Journal of Guidance, Control, and Dynamics</i> , 2013, 36, 677-685.	2.8	25
94	Palladium-Catalyzed Cross-Coupling of Electron-Deficient Heteroaromatic Amines with Heteroaryl Halides. <i>Synthetic Communications</i> , 2013, 43, 456-463.	2.1	11
95	Tangent Orbital Rendezvous Using Linear Relative Motion with J2 Perturbations. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-8.	1.1	0
96	An improved two-maneuvre method for orbit rendezvous with constant thrust. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2012, 226, 1583-1592.	1.3	5
97	Tangent Orbital Rendezvous with the Same Direction of Terminal Velocities. <i>Journal of Guidance, Control, and Dynamics</i> , 2012, 35, 335-340.	2.8	14
98	Tangent Orbit Technique in Three Dimensions. <i>Journal of Guidance, Control, and Dynamics</i> , 2012, 35, 1907-1911.	2.8	5
99	Analytical Study of Tangent Orbit and Conditions for Its Solution Existence. <i>Journal of Guidance, Control, and Dynamics</i> , 2012, 35, 186-194.	2.8	26
100	Facile preparation of fullereryl boronic esters. <i>Tetrahedron</i> , 2012, 68, 5193-5196.	1.9	4
101	Identification of Less Lipophilic Rimonphenazine Derivatives for the Treatment of Drug-Resistant Tuberculosis. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 8409-8417.	6.4	67
102	An approximate analytical method for short-range impulsive orbit rendezvous using relative Lambert solutions. <i>Acta Astronautica</i> , 2012, 81, 318-324.	3.2	15
103	Systematic Evaluation of Structure-Activity Relationships of the Rimonphenazine Class and Discovery of a C2 Pyridylamino Series for the Treatment of Multidrug-Resistant Tuberculosis. <i>Molecules</i> , 2012, 17, 4545-4559.	3.8	22
104	Selective Synthesis of Fullerenol Derivatives with Terminal Alkyne and Crown Ether Addends. <i>Journal of Organic Chemistry</i> , 2012, 77, 2456-2462.	3.2	16
105	Preparation of a 12-Membered Open-Cage Fullerenone through Silane/Borane-Promoted Formation of Ketal Moieties and Oxidation of a Vicinal Fullerenediol. <i>Journal of Organic Chemistry</i> , 2011, 76, 6743-6748.	3.2	8
106	Assembly of Janus fullerenol: a novel approach to prepare rich carbon structures. <i>Journal of Materials Chemistry</i> , 2011, 21, 14864.	6.7	13
107	Synthesis of New Rimonphenazines with Pyrimidine and Pyrazine Substitution at the 2-N Position. <i>Molecules</i> , 2011, 16, 6985-6991.	3.8	4
108	Synthesis of fullerene multiadducts with mixed oxygen and nitrogen addends including five secondary amino groups. <i>Tetrahedron Letters</i> , 2011, 52, 5805-5807.	1.4	4

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109	Optimal two-impulse rendezvous using constrained multiple-revolution Lambert solutions. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2011, 110, 305-317.	1.4	35
110	A solution to two-point boundary value problem for power-limited rendezvous with constant thrust. <i>Acta Astronautica</i> , 2011, 69, 150-157.	3.2	21
111	A second-order solution to the two-point boundary value problem for rendezvous in eccentric orbits. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2010, 107, 319-336.	1.4	14
112	Facile Synthesis of Isomerically Pure Fullerenols and Formation of Spherical Aggregates from $C_{60}(OH)_8$. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5293-5295.	13.8	75
113	Constrained Multiple-Revolution Lambert's Problem. <i>Journal of Guidance, Control, and Dynamics</i> , 2010, 33, 1779-1786.	2.8	44
114	Efficient Cage-Opening Cascade Process for the Preparation of Water-Encapsulated [60]Fullerene Derivatives. <i>Organic Letters</i> , 2009, 11, 2772-2774.	4.6	44
115	Hydrogenation of o-chloronitrobenzene on a Pd/C catalyst doped with metal oxide nanoparticles. <i>Chemical Engineering Journal</i> , 2008, 141, 368-374.	12.7	23
116	Preparation of uncoated iron oxide nanoparticles by thermal decarboxylation of iron hydroxide cetylsulfonyl acetate in solution. <i>Materials Letters</i> , 2008, 62, 219-221.	2.6	11