Arturo Manchado Torres

List of Publications by Year
in descending order

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98 papers	5,870 citations	186265 28 h-index	74163 75 g-index
98 all docs	98 docs citations	98 times ranked	6387 citing authors

#	Article	IF	Citations
1	Sloan Digital Sky Survey IV: Mapping the Milky Way, Nearby Galaxies, and the Distant Universe. Astronomical Journal, 2017, 154, 28.	4.7	1,100
2	The 16th Data Release of the Sloan Digital Sky Surveys: First Release from the APOGEE-2 Southern Survey and Full Release of eBOSS Spectra. Astrophysical Journal, Supplement Series, 2020, 249, 3.	7.7	826
3	The Fourteenth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the Extended Baryon Oscillation Spectroscopic Survey and from the Second Phase of the Apache Point Observatory Galactic Evolution Experiment. Astrophysical Journal, Supplement Series, 2018, 235, 42.	7.7	796
4	The 13th Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the SDSS-IV Survey Mapping Nearby Galaxies at Apache Point Observatory. Astrophysical Journal, Supplement Series, 2017, 233, 25.	7.7	406
5	The Seventeenth Data Release of the Sloan Digital Sky Surveys: Complete Release of MaNGA, MaStar, and APOGEE-2 Data. Astrophysical Journal, Supplement Series, 2022, 259, 35.	7.7	405
6	The Fifteenth Data Release of the Sloan Digital Sky Surveys: First Release of MaNGA-derived Quantities, Data Visualization Tools, and Stellar Library. Astrophysical Journal, Supplement Series, 2019, 240, 23.	7.7	299
7	Chemical tagging with APOGEE: discovery of a large population of N-rich stars in the inner Galaxy. Monthly Notices of the Royal Astronomical Society, 2017, 465, 501-524.	4.4	150
8	NEW H-BAND STELLAR SPECTRAL LIBRARIES FOR THE SDSS-III/APOGEE SURVEY. Astronomical Journal, 2015, 149, 181.	4.7	114
9	The Dynamical Evolution of the Circumstellar Gas around Lowâ€•and Intermediateâ€Mass Stars. II. The Planetary Nebula Formation. Astrophysical Journal, 2002, 581, 1204-1224.	4.5	101
10	Infrared spectroscopy and integrated molar absorptivity of C60 and C70 fullerenes at extreme temperatures. Monthly Notices of the Royal Astronomical Society, 2011, 413, 213-222.	4.4	80
11	Quadrupolar Planetary Nebulae: A New Morphological Class. Astrophysical Journal, 1996, 466, L95-L98.	4.5	78
12	The Lazy Giants: APOGEE Abundances Reveal Low Star Formation Efficiencies in the Magellanic Clouds. Astrophysical Journal, 2020, 895, 88.	4.5	77
13	SpitzerInfrared Spectrograph Observations of Magellanic Cloud Planetary Nebulae: The Nature of Dust in Lowâ€Metallicity Circumstellar Ejecta. Astrophysical Journal, 2007, 671, 1669-1684.	4.5	76
14	Planetary Nebula Abundances and Morphology: Probing the Chemical Evolution of the Milky Way. Astrophysical Journal, 2006, 651, 898-905.	4.5	74
15	The Dynamical Evolution of the Circumstellar Gas around Lowâ€•and Intermediateâ€Mass Stars. I. The Asymptotic Giant Branch. Astrophysical Journal, 2002, 571, 880-900.	4.5	70
16	The Correlations between Planetary Nebula Morphology and Central Star Evolution: Analysis of the Northern Galactic Sample. Astrophysical Journal, 2002, 576, 285-293.	4.5	51
17	Ram Pressure Stripping in Planetary Nebulae. Astrophysical Journal, 2003, 585, L49-L53.	4.5	50
18	Final Targeting Strategy for the Sloan Digital Sky Survey IV Apache Point Observatory Galactic Evolution Experiment 2 North Survey. Astronomical Journal, 2021, 162, 302.	4.7	44

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19	Infrared Space ObservatoryObservations of IRAS 16594â˜4656: A New Protoâ€“Planetary Nebula with a Strong 21 Micron Dust Feature. Astrophysical Journal, 1999, 513, 941-946.	4.5	43
20	THE INTERACTION OF ASYMPTOTIC GIANT BRANCH STARS WITH THE INTERSTELLAR MEDIUM. Astrophysical Journal, 2012, 748, 94.	4.5	40
21	THE NATURE OF DUST IN COMPACT GALACTIC PLANETARY NEBULAE FROMSPITZERSPECTRA. Astrophysical Journal, 2012, 753, 172.	4.5	40
22	Infrared spectroscopy of hydrogenated fullerenes (fulleranes) at extreme temperatures. Monthly Notices of the Royal Astronomical Society, 2012, 423, 2868-2878.	4.4	37
23	The role of massive AGB stars in the early solar system composition. Meteoritics and Planetary Science, 2009, 44, 627-639.	1.6	35
24	Far- and mid-infrared spectroscopy of complex organic matter of astrochemical interest: coal, heavy petroleum fractions and asphaltenes. Monthly Notices of the Royal Astronomical Society, 2013, 429, 3025-3039.	4.4	34
25	Sonochemical Synthesis of Fullerene C₆₀/Anthracene Diels-Alder Mono and Bis-adducts. Fullerenes Nanotubes and Carbon Nanostructures, 2014, 22, 565-574.	2.1	33
26	A DETAILED LOOK AT CHEMICAL ABUNDANCES IN MAGELLANIC CLOUD PLANETARY NEBULAE. I. THE SMALL MAGELLANIC CLOUD. Astrophysical Journal, 2010, 717, 562-576.	4.5	32
27	The multiple-shell structure of the planetary nebula NGC 6751. Astrophysical Journal, 1991, 376, 150.	4.5	32
28	Multiple collimated outflows in a planetary nebula?. New Astronomy, 1997, 2, 461-470.	1.8	30
29	HIGH-RESOLUTION IMAGING OF NGC 2346 WITH GSAOI/GeMS: DISENTANGLING THE PLANETARY NEBULA MOLECULAR STRUCTURE TO UNDERSTAND ITS ORIGIN AND EVOLUTION. Astrophysical Journal, 2015, 808, 115.	4.5	28
30	The triple-shell structure and collimated outflows of the planetary nebula NGC 6891. Monthly Notices of the Royal Astronomical Society, 2000, 313, 1-7.	4.4	27
31	Far infrared (terahertz) spectroscopy of a series of polycyclic aromatic hydrocarbons and application to structure interpretation of asphaltenes and related compounds. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 111, 68-79.	3.9	27
32	Optical and Infrared Observations of the Bipolar Protoâ€“Planetary Nebula Henize 401. Astrophysical Journal, 1999, 526, 854-861.	4.5	25
33	A detailed analysis of the properties of radiolyzed proteinaceous amino acids. Journal of Radioanalytical and Nuclear Chemistry, 2011, 287, 903-911.	1.5	24
34	Physical Structure of Planetary Nebulae. I. The Owl Nebula. Astronomical Journal, 2003, 125, 3213-3221.	4.7	23
35	Solid state radiolysis of amino acids in an astrochemical perspective. Radiation Physics and Chemistry, 2011, 80, 57-65.	2.8	23
36	Phosphorus-rich stars with unusual abundances are challenging theoretical predictions. Nature Communications, 2020, 11, 3759.	12.8	23

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37	Electronic absorption spectroscopy of polycyclic aromatic hydrocarbons (PAHs) radical cations generated in oleum: A superacid medium. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2010, 77, 998-1004.	3.9	22
38	[ITAL]HUBBLE SPACE TELESCOPE[/ITAL] [ITAL]Hubble Space Telescope[/ITAL] and Ground-based Spectroscopy of K648 in M15. Astronomical Journal, 2001, 122, 1538-1544.	4.7	20
39	Radiolysis and radioracemization of 20 amino acids from the beginning of the Solar System. Rendiconti Lincei, 2011, 22, 81-94.	2.2	20
40	ROTATING STARS AND THE FORMATION OF BIPOLAR PLANETARY NEBULAE. II. TIDAL SPIN-UP. Astrophysical Journal, 2016, 823, 142.	4.5	19
41	Synthesis and FTâ€IR Spectroscopy of Perdeuterofullerane: C₆₀D₃₆ Evidences of Isotope Effect in the Stability of C₆₀D₃₆. Fullerenes Nanotubes and Carbon Nanostructures, 2009, 17, 378-389.	2.1	18
42	On the C₆₀Fullerene Adduct with Pentacene: Synthesis and Stability. Fullerenes Nanotubes and Carbon Nanostructures, 2015, 23, 818-823.	2.1	18
43	Constraint on the time variation of the fine-structure constant with the SDSS-III/BOSS DR12 quasar sample. Monthly Notices of the Royal Astronomical Society, 2015, 452, 4153-4168.	4.4	18
44	Low and High Temperature Infrared Spectroscopy of C60and C70Fullerenes. Fullerenes Nanotubes and Carbon Nanostructures, 2010, 18, 224-235.	2.1	17
45	KINEMATICAL ANALYSIS OF A SAMPLE OF BIPOLAR PLANETARY NEBULAE. Astronomical Journal, 2008, 135, 2199-2211.	4.7	16
46	Merging of Elliptical Galaxies as a Possible Origin of the Intergalactic Stellar Population. Astrophysical Journal, 2006, 644, 843-849.	4.5	15
47	Perdeuterofulleranes: Synthesis and Properties of C₇₀D₃₈ and C₇₀H₃₈. Fullerenes Nanotubes and Carbon Nanostructures, 2009, 17, 401-413.	2.1	15
48	Solid state radiolysis of sulphur-containing amino acids: cysteine, cystine and methionine. Journal of Radioanalytical and Nuclear Chemistry, 2011, 287, 573-580.	1.5	14
49	Chemical Thermodynamics Applied to the Dielsâ€“Alder Reaction of C60Fullerene with Polyacenes. Fullerenes Nanotubes and Carbon Nanostructures, 2015, 23, 760-768.	2.1	14
50	About the iron carbonyl complex with C₆₀and C₇₀fullerene: [Fe(CO)₄(Î·²C₆₀)] and [Fe(CO)₄(Î·²C₇₀)]. Fullerenes Nanotubes and Carbon Nanostructures, 2016, 24, 225-233.	2.1	14
51	A new route to graphene starting from heavily ozonized fullerenes: Part 1â€”thermal reduction under inert atmosphere. Fullerenes Nanotubes and Carbon Nanostructures, 2016, 24, 52-61.	2.1	14
52	A young, dusty, compact radio source within a LyÎ± halo. Monthly Notices of the Royal Astronomical Society, 2008, 389, 792-798.	4.4	13
53	Extreme nitrogen enrichment in the asymmetrical planetary nebulae M1-75. Astrophysical Journal, 1995, 444, L49.	4.5	13
54	Determination of the Integrated Molar Absorptivity and Molar Extinction Coefficient of Hydrogenated Fullerenes. Fullerenes Nanotubes and Carbon Nanostructures, 2013, 21, 417-428.	2.1	12

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55	A new route to graphene starting from heavily ozonized fullerenes: Part 3 â€“ an electron spin resonance study. Fullerenes Nanotubes and Carbon Nanostructures, 2016, 24, 195-201.	2.1	12
56	A new route to graphene starting from heavily ozonized fullerenes: Part 2â€”oxidation in air. Fullerenes Nanotubes and Carbon Nanostructures, 2016, 24, 62-66.	2.1	11
57	Kinetic Isotope Effects on the Photolysis of C60H18 and C60D18. Fullerenes Nanotubes and Carbon Nanostructures, 2009, 17, 414-427.	2.1	10
58	On the Radical Cation Spectra of Fullerenes and Fulleranes. Part 1: C₆₀, C_{70,}C₇₆, C₇₈and C₈₄. Fullerenes Nanotubes and Carbon Nanostructures, 2012, 20, 656-671.	2.1	10
59	On the Radical Anion Spectra of Fullerenes C₆₀and C₇₀. Fullerenes Nanotubes and Carbon Nanostructures, 2013, 21, 537-548.	2.1	10
60	Toluene pyrolysis in an electric ARC: Products analysis. Fullerenes Nanotubes and Carbon Nanostructures, 2019, 27, 469-477.	2.1	10
61	Petroleum, coal and other organics in space. Astrophysics and Space Science, 2020, 365, 1.	1.4	10
62	Heavy-element Abundances in P-rich Stars: A New Site for the s-process?. Astrophysical Journal Letters, 2020, 904, L1.	8.3	10
63	A Review on Carbon-rich Molecules in Space. Proceedings of the International Astronomical Union, 2012, 10, 720-722.	0.0	9
64	The chemical composition of the post-asymptotic giant branch F supergiant CRL 2688. Monthly Notices of the Royal Astronomical Society, 2012, 425, 997-1006.	4.4	9
65	On the Molar Extinction Coefficient and Integrated Molar Absorptivity of the Infrared Absorption Spectra of C₆₀and C₇₀Fullerenes. Fullerenes Nanotubes and Carbon Nanostructures, 2012, 20, 191-199.	2.1	9
66	Acenes adducts with C₇₀fullerene: Anthracene, tetracene and pentacene. Fullerenes Nanotubes and Carbon Nanostructures, 2016, 24, 679-687.	2.1	9
67	Charge-transfer interaction between C₆₀ fullerene and alkylnaphthalenes. Fullerenes Nanotubes and Carbon Nanostructures, 2017, 25, 223-229.	2.1	9
68	FT-IR spectroscopy of carbonized acenes: a possible key for the UIBs/AIBs origins. Fullerenes Nanotubes and Carbon Nanostructures, 2018, 26, 820-826.	2.1	9
69	Photolytic Decomposition of Hydrogenated C70: C70H38 and C70D38. Fullerenes Nanotubes and Carbon Nanostructures, 2009, 17, 428-439.	2.1	8
70	Amino acids in comets and meteorites: stability under gamma radiation and preservation of the enantiomeric excess. Monthly Notices of the Royal Astronomical Society, 2010, , no-no.	4.4	7
71	GTC/CanariCam Mid-IR Imaging of the Fullerene-rich Planetary Nebula IC 418: Searching for the Spatial Distribution of Fullerene-like Molecules. Astronomical Journal, 2018, 155, 105.	4.7	7
72	Wide binaries in planetary nebulae withGaiaDR2. Astronomy and Astrophysics, 2020, 644, A173.	5.1	7

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73	The changing nebula around the hot R Coronae Borealis star DY Centauri. Monthly Notices of the Royal Astronomical Society, 2013, 431, 159-166.	4.4	6
74	Submerged carbon arc in liquid benzene: GC-MS analysis of the products. Fullerenes Nanotubes and Carbon Nanostructures, 2017, 25, 576-584.	2.1	6
75	Far infrared spectroscopy and other spectral and thermal properties of [Li@C₆₀]PF₆. Fullerenes Nanotubes and Carbon Nanostructures, 2019, 27, 695-701.	2.1	6
76	On the Radical Cation Spectra of Fullerenes and Fulleranes. Part 2: C60H36, C70H38, C60H18and C60Hx/C70HyMixture. Fullerenes Nanotubes and Carbon Nanostructures, 2012, 20, 672-680.	2.1	5
77	C70 Fullerene charge-transfer interaction with alkylnaphthalenes, pinenes, and a diene. Fullerenes Nanotubes and Carbon Nanostructures, 2017, 25, 505-511.	2.1	5
78	Phase-transfer catalysis in the oxidation of C₆₀and C₇₀fullerene with KMnO₄and crown ether. Fullerenes Nanotubes and Carbon Nanostructures, 2018, 26, 578-583.	2.1	4
79	Asphaltenes as model compounds of the UIBs/AIBs detected in various astrophysical objects. Part 1 â€“ Petroleum asphaltenes carbonization. Fullerenes Nanotubes and Carbon Nanostructures, 0, , 1-13.	2.1	4
80	Raman, FT-IR spectroscopy and morphology of carbon dust from carbon arc in liquid benzene. Fullerenes Nanotubes and Carbon Nanostructures, 2018, 26, 654-660.	2.1	3
81	[Li@C60]PF6: Infrared spectra from 90K to 523K; Determination of the molar extinction coefficients and integrated molar absorptivity. Fullerenes Nanotubes and Carbon Nanostructures, 2020, 28, 474-479.	2.1	3
82	Vinylacetylene synthesis with a low power submerged carbon arc in n-hexane. Fullerenes Nanotubes and Carbon Nanostructures, 2021, 29, 956-965.	2.1	3
83	Molar extinction coefficient of fullerenes and related hydrogenated derivatives â€œfulleranesâ€• Proceedings of the International Astronomical Union, 2011, 7, 324-325.	0.0	2
84	Ultraviolet emission line imaging of planetary nebulae with GALEX. Proceedings of the International Astronomical Union, 2011, 7, 308-309.	0.0	2
85	The Central Star of NGC 2346 as a Clue to Binary Evolution through the Common Envelope Phase. Astrophysical Journal, 2019, 885, 84.	4.5	2
86	Isotope Effect in the UV Photolysis of Hydrogenated and Perdeuterated Fulleranes. Carbon Materials, 2010, , 149-170.	1.2	2
87	Hydrogenation of [Li@C₆₀]PF₆: A comparison with fulleranes derived from C₆₀. Fullerenes Nanotubes and Carbon Nanostructures, 2022, 30, 1245-1251.	2.1	2
88	THE INTERGALACTIC STELLAR POPULATION FROM MERGERS OF ELLIPTICAL GALAXIES WITH DARK MATTER HALOS. Astrophysical Journal, 2010, 710, 1589-1595.	4.5	1
89	A detailed look at chemical abundances in the Magellanic Clouds. Proceedings of the International Astronomical Union, 2011, 7, 502-503.	0.0	1
90	Low Temperature Infrared Spectroscopy of C60 and C70 Fullerenes and Fullerane C60H18. Carbon Materials, 2010, , 203-223.	1.2	1

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91	Asphaltenes as model compounds of the UIBs/AIBs detected in various astrophysical objects. Part 2 â€“ Natural bitumens asphaltenes carbonization. Fullerenes Nanotubes and Carbon Nanostructures, 0, , 1-19.	2.1	1
92	The Correlation of PN Morphology and Parameters. Symposium - International Astronomical Union, 2003, 209, 431-438.	0.1	0
93	Novel dispersive elements for LIRIS. Proceedings of SPIE, 2008, , .	0.8	0
94	Morphological classification of post-AGB stars. Proceedings of the International Astronomical Union, 2011, 7, 83-86.	0.0	0
95	Optical Survey of Post-AGB Candidates. Astrophysics and Space Science Library, 2001, , 21-27.	2.7	0
96	Molecular Hydrogen Around Post-AGB Stars. Astrophysics and Space Science Library, 2001, , 383-386.	2.7	0
97	Synthesis, Stability and Spectroscopy of Perdeuterofulleranes: C60D36 and C70D38 Evidences of Isotope Effects. Carbon Materials, 2010, , 127-148.	1.2	0
98	Asphaltenes as model compounds of the UIBs/AIBs detected in various astrophysical objects. Part 3: Petroleum asphaltenes high energy radiation processed. Fullerenes Nanotubes and Carbon Nanostructures, 0, , 1-13.	2.1	0