Arturo Manchado Torres

List of Publications by Year
in descending order

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	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
2	Hydrogenation of [Li@C₆₀]PF₆: A comparison with fulleranes derived from C₆₀. Fullerenes Nanotubes and Carbon Nanostructures, 2022, 30, 1245-1251.	2.1	2
3	Vinylacetylene synthesis with a low power submerged carbon arc in n-hexane. Fullerenes Nanotubes and Carbon Nanostructures, 2021, 29, 956-965.	2.1	3
4	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
5	Phosphorus-rich stars with unusual abundances are challenging theoretical predictions. Nature Communications, 2020, 11, 3759.	12.8	23
6	Petroleum, coal and other organics in space. Astrophysics and Space Science, 2020, 365, 1.	1.4	10
7	The Lazy Giants: APOGEE Abundances Reveal Low Star Formation Efficiencies in the Magellanic Clouds. Astrophysical Journal, 2020, 895, 88.	4.5	77
8	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
9	[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
10	Heavy-element Abundances in P-rich Stars: A New Site for the s-process?. Astrophysical Journal Letters, 2020, 904, L1.	8.3	10
11	Wide binaries in planetary nebulae withGaiaDR2. Astronomy and Astrophysics, 2020, 644, A173.	5.1	7
12	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
13	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
14	Toluene pyrolysis in an electric ARC: Products analysis. Fullerenes Nanotubes and Carbon Nanostructures, 2019, 27, 469-477.	2.1	10
15	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
16	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
17	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
18	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

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19	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
20	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
21	Charge-transfer interaction between C₆₀ fullerene and alkylnaphthalenes. Fullerenes Nanotubes and Carbon Nanostructures, 2017, 25, 223-229.	2.1	9
22	C70 Fullerene charge-transfer interaction with alkylnaphthalenes, pinenes, and a diene. Fullerenes Nanotubes and Carbon Nanostructures, 2017, 25, 505-511.	2.1	5
23	Submerged carbon arc in liquid benzene: GC-MS analysis of the products. Fullerenes Nanotubes and Carbon Nanostructures, 2017, 25, 576-584.	2.1	6
24	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
25	Sloan Digital Sky Survey IV: Mapping the Milky Way, Nearby Galaxies, and the Distant Universe. Astronomical Journal, 2017, 154, 28.	4.7	1,100
26	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
27	ROTATING STARS AND THE FORMATION OF BIPOLAR PLANETARY NEBULAE. II. TIDAL SPIN-UP. Astrophysical Journal, 2016, 823, 142.	4.5	19
28	Acenes adducts with C₇₀fullerene: Anthracene, tetracene and pentacene. Fullerenes Nanotubes and Carbon Nanostructures, 2016, 24, 679-687.	2.1	9
29	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
30	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
31	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
32	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
33	On the C₆₀Fullerene Adduct with Pentacene: Synthesis and Stability. Fullerenes Nanotubes and Carbon Nanostructures, 2015, 23, 818-823.	2.1	18
34	Chemical Thermodynamics Applied to the Dielsâ€“Alder Reaction of C60Fullerene with Polyacenes. Fullerenes Nanotubes and Carbon Nanostructures, 2015, 23, 760-768.	2.1	14
35	NEW H-BAND STELLAR SPECTRAL LIBRARIES FOR THE SDSS-III/APOGEE SURVEY. Astronomical Journal, 2015, 149, 181.	4.7	114
36	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

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37	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
38	Sonochemical Synthesis of Fullerene C₆₀/Anthracene Diels-Alder Mono and Bis-adducts. Fullerenes Nanotubes and Carbon Nanostructures, 2014, 22, 565-574.	2.1	33
39	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
40	On the Radical Anion Spectra of Fullerenes C₆₀and C₇₀. Fullerenes Nanotubes and Carbon Nanostructures, 2013, 21, 537-548.	2.1	10
41	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
42	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
43	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
44	A Review on Carbon-rich Molecules in Space. Proceedings of the International Astronomical Union, 2012, 10, 720-722.	0.0	9
45	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
46	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
47	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
48	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
49	THE INTERACTION OF ASYMPTOTIC GIANT BRANCH STARS WITH THE INTERSTELLAR MEDIUM. Astrophysical Journal, 2012, 748, 94.	4.5	40
50	THE NATURE OF DUST IN COMPACT GALACTIC PLANETARY NEBULAE FROMSPITZERSPECTRA. Astrophysical Journal, 2012, 753, 172.	4.5	40
51	Infrared spectroscopy of hydrogenated fullerenes (fulleranes) at extreme temperatures. Monthly Notices of the Royal Astronomical Society, 2012, 423, 2868-2878.	4.4	37
52	Molar extinction coefficient of fullerenes and related hydrogenated derivatives â€œfulleranesâ€• Proceedings of the International Astronomical Union, 2011, 7, 324-325.	0.0	2
53	A detailed look at chemical abundances in the Magellanic Clouds. Proceedings of the International Astronomical Union, 2011, 7, 502-503.	0.0	1
54	Ultraviolet emission line imaging of planetary nebulae with GALEX. Proceedings of the International Astronomical Union, 2011, 7, 308-309.	0.0	2

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55	Morphological classification of post-AGB stars. Proceedings of the International Astronomical Union, 2011, 7, 83-86.	0.0	0
56	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
57	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
58	A detailed analysis of the properties of radiolyzed proteinaceous amino acids. Journal of Radioanalytical and Nuclear Chemistry, 2011, 287, 903-911.	1.5	24
59	Solid state radiolysis of amino acids in an astrochemical perspective. Radiation Physics and Chemistry, 2011, 80, 57-65.	2.8	23
60	Radiolysis and radioracemization of 20 amino acids from the beginning of the Solar System. Rendiconti Lincei, 2011, 22, 81-94.	2.2	20
61	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
62	THE INTERGALACTIC STELLAR POPULATION FROM MERGERS OF ELLIPTICAL GALAXIES WITH DARK MATTER HALOS. Astrophysical Journal, 2010, 710, 1589-1595.	4.5	1
63	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
64	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
65	Low and High Temperature Infrared Spectroscopy of C60and C70Fullerenes. Fullerenes Nanotubes and Carbon Nanostructures, 2010, 18, 224-235.	2.1	17
66	Low Temperature Infrared Spectroscopy of C60 and C70 Fullerenes and Fullerane C60H18. Carbon Materials, 2010, , 203-223.	1.2	1
67	Isotope Effect in the UV Photolysis of Hydrogenated and Perdeuterated Fulleranes. Carbon Materials, 2010, , 149-170.	1.2	2
68	Synthesis, Stability and Spectroscopy of Perdeuterofulleranes: C60D36 and C70D38 Evidences of Isotope Effects. Carbon Materials, 2010, , 127-148.	1.2	0
69	Kinetic Isotope Effects on the Photolysis of C60H18 and C60D18. Fullerenes Nanotubes and Carbon Nanostructures, 2009, 17, 414-427.	2.1	10
70	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
71	Perdeuterofulleranes: Synthesis and Properties of C₇₀D₃₈ and C₇₀H₃₈. Fullerenes Nanotubes and Carbon Nanostructures, 2009, 17, 401-413.	2.1	15
72	Photolytic Decomposition of Hydrogenated C70: C70H38 and C70D38. Fullerenes Nanotubes and Carbon Nanostructures, 2009, 17, 428-439.	2.1	8

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73	The role of massive AGB stars in the early solar system composition. Meteoritics and Planetary Science, 2009, 44, 627-639.	1.6	35
74	A young, dusty, compact radio source within a LyÎ± halo. Monthly Notices of the Royal Astronomical Society, 2008, 389, 792-798.	4.4	13
75	Novel dispersive elements for LIRIS. Proceedings of SPIE, 2008, , .	0.8	0
76	KINEMATICAL ANALYSIS OF A SAMPLE OF BIPOLAR PLANETARY NEBULAE. Astronomical Journal, 2008, 135, 2199-2211.	4.7	16
77	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
78	Merging of Elliptical Galaxies as a Possible Origin of the Intergalactic Stellar Population. Astrophysical Journal, 2006, 644, 843-849.	4.5	15
79	Planetary Nebula Abundances and Morphology: Probing the Chemical Evolution of the Milky Way. Astrophysical Journal, 2006, 651, 898-905.	4.5	74
80	Physical Structure of Planetary Nebulae. I. The Owl Nebula. Astronomical Journal, 2003, 125, 3213-3221.	4.7	23
81	The Correlation of PN Morphology and Parameters. Symposium - International Astronomical Union, 2003, 209, 431-438.	0.1	0
82	Ram Pressure Stripping in Planetary Nebulae. Astrophysical Journal, 2003, 585, L49-L53.	4.5	50
83	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
84	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
85	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
86	[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
87	Optical Survey of Post-AGB Candidates. Astrophysics and Space Science Library, 2001, , 21-27.	2.7	0
88	Molecular Hydrogen Around Post-AGB Stars. Astrophysics and Space Science Library, 2001, , 383-386.	2.7	0
89	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
90	Optical and Infrared Observations of the Bipolar Protoâ€“Planetary Nebula Henize 401. Astrophysical Journal, 1999, 526, 854-861.	4.5	25

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91	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
92	Multiple collimated outflows in a planetary nebula?. New Astronomy, 1997, 2, 461-470.	1.8	30
93	Quadrupolar Planetary Nebulae: A New Morphological Class. Astrophysical Journal, 1996, 466, L95-L98.	4.5	78
94	Extreme nitrogen enrichment in the asymmetrical planetary nebulae M1-75. Astrophysical Journal, 1995, 444, L49.	4.5	13
95	The multiple-shell structure of the planetary nebula NGC 6751. Astrophysical Journal, 1991, 376, 150.	4.5	32
96	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
97	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
98	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