S J Bolton

List of Publications by Citations

245	6,934	41	74
papers	citations	h-index	g-index
277	8,139	8.4	5.42
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
245	Cassini Plasma Spectrometer Investigation. *Space Science Reviews*, **2004**, 114, 1-112	7.5	411
244	Composition and dynamics of plasma in Saturn's magnetosphere. *Science*, **2005**, 307, 1262-6	33.3	261
243	Cassini finds molecular hydrogen in the Enceladus plume: Evidence for hydrothermal processes. *Science*, **2017**, 356, 155-159	33.3	252
242	Comparing Jupiter interior structure models to Juno gravity measurements and the role of a dilute core. *Geophysical Research Letters*, **2017**, 44, 4649-4659	4.9	184
241	Jupiter's interior and deep atmosphere: The initial pole-to-pole passes with the Juno spacecraft. *Science*, **2017**, 356, 821-825	33.3	180
240	Plasma observations at Io with the Galileo spacecraft. *Science*, **1996**, 274, 394-5	33.3	174
239	A New Model of Jupiter's Magnetic Field From Juno's First Nine Orbits. *Geophysical Research Letters*, **2018**, 45, 2590-2596	4.9	170
238	Dynamics of Saturn's magnetosphere from MIMI during Cassini's orbital insertion. *Science*, **2005**, 307, 1270-3	33.3	158
237	Control of Jupiter's radio emission and aurorae by the solar wind. *Nature*, **2002**, 415, 985-7	50.4	150
236	The Juno Mission. *Space Science Reviews*, **2017**, 213, 5-37	7.5	149
235	Magnetospheric Science Objectives of the Juno Mission. *Space Science Reviews*, **2017**, 213, 219-287	7.5	138
234	Evidence for a magnetosphere at Ganymede from plasma-wave observations by the Galileo spacecraft. *Nature*, **1996**, 384, 535-537	50.4	137
233	Measurement of Jupiter's asymmetric gravity field. *Nature*, **2018**, 555, 220-222	50.4	132
232	A suppression of differential rotation in Jupiter's deep interior. *Nature*, **2018**, 555, 227-230	50.4	130
231	Jupiter's atmospheric jet streams extend thousands of kilometres deep. *Nature*, **2018**, 555, 223-226	50.4	127
230	Galileo Plasma Wave Observations in the Io Plasma Torus and Near Io. *Science*, **1996**, 274, 391-392	33.3	127
229	Galileo evidence for rapid interchange transport in the Io torus. *Geophysical Research Letters*, **1997**, 24, 2131-2134	4.9	99

228	Jupiter's magnetosphere and aurorae observed by the Juno spacecraft during its first polar orbits. *Science*, **2017**, 356, 826-832	33.3	93
227	Ultra-relativistic electrons in Jupiter's radiation belts. *Nature*, **2002**, 415, 987-91	50.4	89
226	Electron sources in Saturn's magnetosphere. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a		76
225	The distribution of ammonia on Jupiter from a preliminary inversion of Juno microwave radiometer data. *Geophysical Research Letters*, **2017**, 44, 5317-5325	4.9	74
224	Juno observations of energetic charged particles over Jupiter's polar regions: Analysis of monodirectional and bidirectional electron beams. *Geophysical Research Letters*, **2017**, 44, 4410-4418	4.9	74
223	Initial interpretation of Titan plasma interaction as observed by the Cassini plasma spectrometer: Comparisons with Voyager 1. *Planetary and Space Science*, **2006**, 54, 1211-1224	2	74
222	Preliminary interpretation of Titan plasma interaction as observed by the Cassini Plasma Spectrometer: Comparisons with Voyager 1. *Geophysical Research Letters*, **2006**, 33,	4.9	70
221	Lightning and plasma wave observations from the galileo flyby of venus. *Science*, **1991**, 253, 1522-5	33.3	64
220	Clusters of cyclones encircling Jupiter's poles. *Nature*, **2018**, 555, 216-219	50.4	61
219	Enhanced whistler-mode emissions: Signatures of interchange motion in the Io torus. *Geophysical Research Letters*, **1997**, 24, 2123-2126	4.9	61
218	Jupiter gravity field estimated from the first two Juno orbits. *Geophysical Research Letters*, **2017**, 44, 4694-4700	4.9	60
217	Discrete and broadband electron acceleration in Jupiter's powerful aurora. *Nature*, **2017**, 549, 66-69	50.4	57
216	The water abundance in Jupiter equatorial zone. *Nature Astronomy*, **2020**, 4, 609-616	12.1	54
215	Correlation studies between solar wind parameters and the decimetric radio emission from Jupiter. *Journal of Geophysical Research*, **1989**, 94, 121		54
214	Outflow of hydrogen ions from Ganymede. *Geophysical Research Letters*, **1997**, 24, 2151-2154	4.9	53
213	Imaging Jupiter's Aurora at Visible Wavelengths. *Icarus*, **1998**, 135, 251-264	3.8	53
212	Response of Jupiter's auroras to conditions in the interplanetary medium as measured by the Hubble Space Telescope and Juno. *Geophysical Research Letters*, **2017**, 44, 7643-7652	4.9	52
211	Electron beams and loss cones in the auroral regions of Jupiter. *Geophysical Research Letters*, **2017**, 44, 7131-7139	4.9	51

210	The Juno Mission. *Proceedings of the International Astronomical Union*, **2010**, 6, 92-100	0.1	47
209	MWR: Microwave Radiometer for the Juno Mission to Jupiter. *Space Science Reviews*, **2017**, 213, 139-185	7.5	46
208	A revised model of Jupiter's inner electron belts: Updating the Divine radiation model. *Geophysical Research Letters*, **2005**, 32, n/a-n/a	4.9	45
207	Magnetospheric and Plasma Science with Cassini-Huygens. *Space Science Reviews*, **2002**, 104, 253-346	7.5	45
206	Morphology of the UV aurorae Jupiter during Juno's first perijove observations. *Geophysical Research Letters*, **2017**, 44, 4463-4471	4.9	43
205	A complex dynamo inferred from the hemispheric dichotomy of Jupiter's magnetic field. *Nature*, **2018**, 561, 76-78	50.4	43
204	Microwave remote sensing of Jupiter's atmosphere from an orbiting spacecraft. *Icarus*, **2005**, 173, 447-453	3.3	41
203	Discussing the processes constraining the Jovian synchrotron radio emission's features. *Planetary and Space Science*, **2008**, 56, 326-345	2	38
202	A nebula of gases from Io surrounding Jupiter. *Nature*, **2002**, 415, 994-6	50.4	37
201	Outburst of Jupiter's synchrotron radiation after the impact of comet Shoemaker-Levy 9. *Science*, **1995**, 268, 1879-83	33.3	37
200	Jupiter's Gravity Field Halfway Through the Juno Mission. *Geophysical Research Letters*, **2020**, 47, e2019GL086572	4.9	37
199	Diverse Electron and Ion Acceleration Characteristics Observed Over Jupiter's Main Aurora. *Geophysical Research Letters*, **2018**, 45, 1277-1285	4.9	35
198	Prevalent lightning sferics at 600 megahertz near Jupiter's poles. *Nature*, **2018**, 558, 87-90	50.4	35
197	Energetic particle signatures of magnetic field-aligned potentials over Jupiter's polar regions. *Geophysical Research Letters*, **2017**, 44, 8703-8711	4.9	35
196	Fine structure of Langmuir waves observed upstream of the bow shock at Venus. *Journal of Geophysical Research*, **1994**, 99, 13363		34
195	LAPLACE: A mission to Europa and the Jupiter System for ESA Cosmic Vision Programme. *Experimental Astronomy*, **2009**, 23, 849-892	1.3	33
194	Precipitating Electron Energy Flux and Characteristic Energies in Jupiter's Main Auroral Region as Measured by Juno/JEDI. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 7554-7567	2.6	33
193	Junocam: Juno Outreach Camera. *Space Science Reviews*, **2017**, 213, 475-506	7.5	31

192	Accelerated flows at Jupiter's magnetopause: Evidence for magnetic reconnection along the dawn flank. *Geophysical Research Letters*, **2017**, 44, 4401-4409	4.9	31
191	Plasma measurements in the Jovian polar region with Juno/JADE. *Geophysical Research Letters*, **2017**, 44, 7122-7130	4.9	30
190	Spatial Distribution and Properties of 0.1–100 keV Electrons in Jupiter's Polar Auroral Region. *Geophysical Research Letters*, **2017**, 44, 9199-9207	4.9	30
189	Ganymede: A new radio source. *Geophysical Research Letters*, **1997**, 24, 2167-2170	4.9	29
188	The global plasma environment of Titan as observed by Cassini Plasma Spectrometer during the first two close encounters with Titan. *Geophysical Research Letters*, **2005**, 32,	4.9	29
187	Plasma densities in the vicinity of Callisto from Galileo plasma wave observations. *Geophysical Research Letters*, **2000**, 27, 1867-1870	4.9	29
186	Galileo plasma wave observations near Europa. *Geophysical Research Letters*, **1998**, 25, 237-240	4.9	29
185	Time variation of Jupiter's internal magnetic field consistent with zonal wind advection. *Nature Astronomy*, **2019**, 3, 730-735	12.1	28
184	Modeling the electron and proton radiation belts of Saturn. *Geophysical Research Letters*, **2003**, 30,	4.9	28
183	A new view of Jupiter's auroral radio spectrum. *Geophysical Research Letters*, **2017**, 44, 7114-7121	4.9	27
182	Low-energy electron measurements at Ganymede with the Galileo spacecraft: Probes of the magnetic topology. *Geophysical Research Letters*, **1997**, 24, 2159-2162	4.9	27
181	In Situ Observations Connected to the Io Footprint Tail Aurora. *Journal of Geophysical Research E: Planets*, **2018**, 123, 3061-3077	4.1	27
180	Juno observations of spot structures and a split tail in Io-induced aurorae on Jupiter. *Science*, **2018**, 361, 774-777	33.3	27
179	Plasma waves in Jupiter's high-latitude regions: Observations from the Juno spacecraft. *Geophysical Research Letters*, **2017**, 44, 4447-4454	4.9	25
178	Energy Flux and Characteristic Energy of Electrons Over Jupiter's Main Auroral Emission. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2019JA027693	2.6	25
177	Generation of the Jovian hectometric radiation: First lessons from Juno. *Geophysical Research Letters*, **2017**, 44, 4439-4446	4.9	24
176	Assessment of mechanisms for Jovian synchrotron variability associated with comet SL-9. *Geophysical Research Letters*, **1995**, 22, 1813-1816	4.9	24
175	Observations of MeV electrons in Jupiter's innermost radiation belts and polar regions by the Juno radiation monitoring investigation: Perijoves 1 and 3. *Geophysical Research Letters*, **2017**, 44, 4481-4488	4.9	23

174	Birkeland currents in Jupiter's magnetosphere observed by the polar-orbiting Juno spacecraft. *Nature Astronomy*, **2019**, 3, 904-909	12.1	23
173	ROSAT Observations of X-ray Emissions from Jupiter During the Impact of Comet Shoemaker-Levy 9. *Science*, **1995**, 268, 1598-601	33.3	23
172	Implications of the ammonia distribution on Jupiter from 1 to 100 bars as measured by the Juno microwave radiometer. *Geophysical Research Letters*, **2017**, 44, 7676-7685	4.9	22
171	The Juno Radiation Monitoring (RM) Investigation. *Space Science Reviews*, **2017**, 213, 507-545	7.5	22
170	Identification of Saturn's magnetospheric regions and associated plasma processes: Synopsis of Cassini observations during orbit insertion. *Reviews of Geophysics*, **2008**, 46,	23.1	22
169	Electron densities near Io from Galileo plasma wave observations. *Journal of Geophysical Research*, **2001**, 106, 26225-26232		22
168	One year variations in the near Earth solar wind ion density and bulk flow velocity. *Geophysical Research Letters*, **1990**, 17, 37-40	4.9	22
167	Plasma environment at the dawn flank of Jupiter's magnetosphere: Juno arrives at Jupiter. *Geophysical Research Letters*, **2017**, 44, 4432-4438	4.9	21
166	Comparison of the Deep Atmospheric Dynamics of Jupiter and Saturn in Light of the Juno and Cassini Gravity Measurements. *Space Science Reviews*, **2020**, 216, 1	7.5	21
165	Intervals of Intense Energetic Electron Beams Over Jupiter's Poles. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 1989	2.6	21
164	Alfvenic Fluctuations Associated With Jupiter's Auroral Emissions. *Geophysical Research Letters*, **2019**, 46, 7157-7165	4.9	21
163	On the Relation Between Jovian Aurorae and the Loading/Unloading of the Magnetic Flux: Simultaneous Measurements From Juno, Hubble Space Telescope, and Hisaki. *Geophysical Research Letters*, **2019**, 46, 11632-11641	4.9	21
162	Infrared observations of Jovian aurora from Juno's first orbits: Main oval and satellite footprints. *Geophysical Research Letters*, **2017**, 44, 5308-5316	4.9	20
161	The effect of differential rotation on Jupiter's low-degree even gravity moments. *Geophysical Research Letters*, **2017**, 44, 5960-5968	4.9	20
160	A heavy ion and proton radiation belt inside of Jupiter's rings. *Geophysical Research Letters*, **2017**, 44, 5259-5268	4.9	20
159	The Juno Gravity Science Instrument. *Space Science Reviews*, **2017**, 213, 205-218	7.5	20
158	Investigating the origins of the Jovian decimetric emission's variability. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		20
157	Changes in Jupiter's 13-cm synchrotron radio emission following the impact of comet Shoemaker-Levy-9. *Geophysical Research Letters*, **1995**, 22, 1797-1800	4.9	20

156	The first close-up images of Jupiter's polar regions: Results from the Juno mission JunoCam instrument. *Geophysical Research Letters*, **2017**, 44, 4599-4606	4.9	19
155	Juno-UVS approach observations of Jupiter's auroras. *Geophysical Research Letters*, **2017**, 44, 7668-7675	4.9	19
154	Preliminary results on the composition of Jupiter's troposphere in hot spot regions from the JIRAM/Juno instrument. *Geophysical Research Letters*, **2017**, 44, 4615-4624	4.9	18
153	Observation and interpretation of energetic ion conics in Jupiter's polar magnetosphere. *Geophysical Research Letters*, **2017**, 44, 4419-4425	4.9	18
152	Jovian bow shock and magnetopause encounters by the Juno spacecraft. *Geophysical Research Letters*, **2017**, 44, 4506-4512	4.9	18
151	Modeling Jupiter's synchrotron radiation. *Geophysical Research Letters*, **2001**, 28, 903-906	4.9	18
150	Method to Derive Ion Properties From Juno JADE Including Abundance Estimates for O+ and S2+. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2018JA026169	2.6	18
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148	Discovery of rapid whistlers close to Jupiter implying lightning rates similar to those on Earth. *Nature Astronomy*, **2018**, 2, 544-548	12.1	17
147	A determination of the source of Jovian hectometric radiation via occultation by Ganymede. *Geophysical Research Letters*, **1997**, 24, 1171-1174	4.9	17
146	Observations of Jupiter's synchrotron radiation at 18 cm during the comet Shoemaker-Levy/9 impacts. *Geophysical Research Letters*, **1995**, 22, 1801-1804	4.9	17
145	Preliminary JIRAM results from Juno polar observations: 2. Analysis of the Jupiter southern H3+ emissions and comparison with the north aurora. *Geophysical Research Letters*, **2017**, 44, 4633-4640	4.9	16
144	Small lightning flashes from shallow electrical storms on Jupiter. *Nature*, **2020**, 584, 55-58	50.4	16
143	Contemporaneous Observations of Jovian Energetic Auroral Electrons and Ultraviolet Emissions by the Juno Spacecraft. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 8298-8317	2.6	16
142	Two-Year Observations of the Jupiter Polar Regions by JIRAM on Board Juno. *Journal of Geophysical Research E: Planets*, **2020**, 125, e2019JE006098	4.1	15
141	Energetic Particles and Acceleration Regions Over Jupiter's Polar Cap and Main Aurora: A Broad Overview. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2019JA027699	2.6	15
140	Absence of a magnetic-field signature in plasma-wave observations at Callisto. *Nature*, **1997**, 387, 261-262	50.4	15
139	Wave-Particle Interactions Associated With Io's Auroral Footprint: Evidence of Alfvẽn, Ion Cyclotron, and Whistler Modes. *Geophysical Research Letters*, **2020**, 47, e2020GL088432	4.9	15

138	Storms and the Depletion of Ammonia in Jupiter: I. Microphysics of "Mushballs". *Journal of Geophysical Research E: Planets*, **2020**, 125, e2020JE006403	4.1	15
137	The Acceleration of Electrons to High Energies Over the Jovian Polar Cap via Whistler Mode Wave-Particle Interactions. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 7523-7533	2.6	15
136	Io-Jupiter decametric arcs observed by Juno/Waves compared to ExPRES simulations. *Geophysical Research Letters*, **2017**, 44, 9225-9232	4.9	14
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133	Preliminary JIRAM results from Juno polar observations: 1. Methodology and analysis applied to the Jovian northern polar region. *Geophysical Research Letters*, **2017**, 44, 4625-4632	4.9	14
132	Alfvenic Acceleration Sustains Ganymede's Footprint Tail Aurora. *Geophysical Research Letters*, **2020**, 47, e2019GL086527	4.9	14
131	Juno observations of large-scale compressions of Jupiter's dawnside magnetopause. *Geophysical Research Letters*, **2017**, 44, 7559-7568	4.9	14
130	Jupiter's Magnetosphere: Plasma Sources and Transport. *Space Science Reviews*, **2015**, 192, 209-236	7.5	14
129	Synchrotron emission images from three-dimensional modeling of the Jovian electron radiation belts. *Advances in Space Research*, **2001**, 28, 915-918	2.4	14
128	Comparing Electron Energetics and UV Brightness in Jupiter's Northern Polar Region During Juno Perijove 5. *Geophysical Research Letters*, **2019**, 46, 19-27	4.9	14
127	The Rich Dynamics of Jupiter's Great Red Spot from JunoCam: Juno Images. *Astronomical Journal*, **2018**, 156, 162	4.9	14
126	First Estimate of Wind Fields in the Jupiter Polar Regions From JIRAM-Juno Images. *Journal of Geophysical Research E: Planets*, **2018**, 123, 1511-1524	4.1	14
125	Multiple-wavelength sensing of Jupiter during the Juno mission's first perijove passage. *Geophysical Research Letters*, **2017**, 44, 4607-4614	4.9	13
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123	Jovian High-Latitude Ionospheric Ions: Juno In Situ Observations. *Geophysical Research Letters*, **2019**, 46, 8663-8670	4.9	13
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119	Hot flow anomaly observed at Jupiter's bow shock. *Geophysical Research Letters*, **2017**, 44, 8107-8112	4.9	12
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117	Understanding the Origin of Jupiter's Diffuse Aurora Using Juno's First Perijove Observations. *Geophysical Research Letters*, **2017**, 44, 10,162-10,170	4.9	12
116	Magnetotail Reconnection at Jupiter: A Survey of Juno Magnetic Field Observations. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2019JA027486	2.6	12
115	Jovian Injections Observed at High Latitude. *Geophysical Research Letters*, **2019**, 46, 9397-9404	4.9	12
114	Investigation of Mass-/Charge-Dependent Escape of Energetic Ions Across the Magnetopauses of Earth and Jupiter. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 5539-5567	2.6	12
113	Preliminary JIRAM results from Juno polar observations: 3. Evidence of diffuse methane presence in the Jupiter auroral regions. *Geophysical Research Letters*, **2017**, 44, 4641-4648	4.9	11
112	In-flight Characterization and Calibration of the Juno-ultraviolet Spectrograph (Juno-UVS). *Astronomical Journal*, **2019**, 157, 90	4.9	11
111	Observation of Electron Conics by Juno: Implications for Radio Generation and Acceleration Processes. *Geophysical Research Letters*, **2018**, 45, 9408-9416	4.9	11
110	Direction-finding measurements of Jovian low-frequency radio components by Juno near Perijove 1. *Geophysical Research Letters*, **2017**, 44, 6508-6516	4.9	11
109	Long-term dynamics of the inner Jovian electron radiation belts. *Advances in Space Research*, **2004**, 33, 2039-2044	2.4	11
108	Divine-Garrett Model and Jovian synchrotron emission. *Geophysical Research Letters*, **2001**, 28, 907-910	4.9	11
107	Evidence for short-term variability of Jupiter's decimetric emission from VLA observations. *Astronomy and Astrophysics*, **2009**, 508, 1001-1010	5.1	11
106	Storms and the Depletion of Ammonia in Jupiter: II. Explaining the Juno Observations. *Journal of Geophysical Research E: Planets*, **2020**, 125, e2020JE006404	4.1	11
105	Reconnection- and Dipolarization-Driven Auroral Dawn Storms and Injections. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2019JA027663	2.6	11
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103	Serendipitous infrared observations of Europa by Juno/JIRAM. *Icarus*, **2019**, 328, 1-13	3.8	10

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101	Io's interaction with the Jovian magnetosphere. *Eos*, **1997**, 78, 93	1.5	10
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96	Infrared Observations of Ganymede From the Jovian InfraRed Auroral Mapper on Juno. *Journal of Geophysical Research E: Planets*, **2020**, 125, e2020JE006508	4.1	9
95	Jupiter Lightning-Induced Whistler and Sferic Events With Waves and MWR During Juno Perijoves. *Geophysical Research Letters*, **2018**, 45, 7268-7276	4.9	9
94	VLA observations at 6.2 cm of the response of Jupiter's electron belt to the July 2009 event. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		9
93	Io's Effect on Energetic Charged Particles as Seen in Juno Data. *Geophysical Research Letters*, **2019**, 46, 13615-13620	4.9	9
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83	Are Dawn Storms Jupiter's Auroral Substorms?. *AGU Advances*, **2021**, 2, e2020AV000275	5.4	8
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80	Possible Transient Luminous Events Observed in Jupiter's Upper Atmosphere. *Journal of Geophysical Research E: Planets*, **2020**, 125, e2020JE006659	4.1	7
79	Jupiter's Equatorial Plumes and Hot Spots: Spectral Mapping from Gemini/TEXES and Juno/MWR. *Journal of Geophysical Research E: Planets*, **2020**, 125, e2020JE006399	4.1	7
78	Revealing the source of Jupiter's x-ray auroral flares. *Science Advances*, **2021**, 7,	14.3	7
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73	Revelations on Jupiter's formation, evolution and interior: Challenges from Juno results. *Icarus*, **2022**, 378, 114937	3.8	6
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71	Energetic Proton Acceleration Associated With Io's Footprint Tail. *Geophysical Research Letters*, **2020**, 47, e2020GL090839	4.9	6
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