

# Mark D Boyer

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10859714/publications.pdf>

Version: 2024-02-01

17  
papers

184  
citations

1937685

4  
h-index

1872680

6  
g-index

17  
all docs

17  
docs citations

17  
times ranked

77  
citing authors

#	ARTICLE	IF	CITATIONS
1	First-principles-driven model-based current profile control for the DIII-D tokamak via LQI optimal control. Plasma Physics and Controlled Fusion, 2013, 55, 105007.	2.1	57
2	Toroidal current profile control during low confinement mode plasma discharges in DIII-D via first-principles-driven model-based robust control synthesis. Nuclear Fusion, 2012, 52, 123018.	3.5	45
3	Backstepping Control of the Toroidal Plasma Current Profile in the DIII-D Tokamak. IEEE Transactions on Control Systems Technology, 2014, 22, 1725-1739.	5.2	38
4	A two-time-scale model-based combined magnetic and kinetic control system for advanced tokamak scenarios on DIII-D. , 2012, , .		6
5	Toward active disruption avoidance via real-time estimation of the safe operating region and disruption proximity in tokamaks. Nuclear Fusion, 2022, 62, 026005.	3.5	6
6	Zero-dimensional nonlinear burn control using isotopic fuel tailoring for thermal excursions. , 2011, , .		5
7	Adaptive nonlinear burn control in tokamak fusion reactors. , 2012, , .		5
8	Experimental and Simulation Testing of Physics-model-based Safety Factor Profile and Internal Energy Feedback Controllers in DIII-D Advanced Tokamak Scenarios. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 5223-5228.	0.4	5
9	Backstepping control of density and energy profiles in a burning tokamak plasma. , 2011, , .		4
10	Simultaneous Boundary and Distributed Feedback Control of the Current Profile in H-mode Discharges on DIII-D. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 1568-1573.	0.4	4
11	Multivariable robust control of the plasma rotational transform profile for advanced tokamak scenarios in DIII-D. , 2012, , .		2
12	First-principles-driven control of the rotational transform profile in high performance discharges in the DIII-D tokamak. , 2013, , .		2
13	PTRANS simulation and experimental test of a robust current profile and &#x03B2;&lt;inf>&lt;/inf>N&lt;/inf>&lt;/inf> controller for off-axis current drive scenarios in the DIII-D tokamak. , 2013, , .		2
14	Current profile control for the development of consistent discharges in DIII-D. , 2015, , .		2
15	Burn control in fusion reactors using simultaneous boundary and distributed actuation. , 2013, , .		1
16	First-principles model-based robust control of the current profile evolution in the DIII-D tokamak. , 2012, , .		0
17	Current profile tracking for the DIII-D tokamak via LQI optimal control. , 2012, , .		0