

# Boris Stepanov

## List of Publications by Year in descending order

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19  
papers

275  
citations

1163117

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h-index

888059

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all docs

19  
docs citations

19  
times ranked

187  
citing authors

#	ARTICLE	IF	CITATIONS
1	Methods, Accuracy and Reliability of ITER Conductor Tests in SULTAN. IEEE Transactions on Applied Superconductivity, 2009, 19, 1508-1511.	1.7	47
2	Design, Manufacture, and Test of an 80 kA-Class Nb <sub>3</sub> Sn Cable-In-Conduit Conductor With Rectangular Geometry and Distributed Pressure Relief Channels. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-6.	1.7	39
3	High current superconductors for DEMO. Fusion Engineering and Design, 2013, 88, 1564-1568.	1.9	29
4	DEMO Central Solenoid Design Based on the Use of HTS Sections at Highest Magnetic Field. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	27
5	Design and R&D for the DEMO Toroidal Field Coils Based on Nb <sub>3</sub> Sn React and Wind Method. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.7	26
6	Test Results of the First US ITER TF Conductor in SULTAN. IEEE Transactions on Applied Superconductivity, 2009, 19, 1478-1482.	1.7	22
7	A Prototype Conductor by React&WIND Method for the EUROfusion DEMO TF Coils. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.7	16
8	DC Test Results of the DEMO TF React&Wind Conductor Prototype No. 2. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.7	15
9	A new test method of AC loss assessment for fusion conductors. Fusion Engineering and Design, 2019, 146, 928-931.	1.9	8
10	Upgrade and Commissioning of the SULTAN Facility to Host Quench Experiments on HTS High Current Conductors. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	8
11	AC Loss Measurement of the DEMO TF React&Wind Conductor Prototype No. 2. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-4.	1.7	7
12	Inter-Layer Joint for the TF Coils of DEMO Design and Test Results. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-4.	1.7	6
13	Test of the MF-CICC Conductor Designed for the 12-T Outsert Coil of the HFML 45-T Hybrid Magnet. IEEE Transactions on Applied Superconductivity, 2016, 26, 1-5.	1.7	5
14	A New Cabled Stabilizer for the Nb <sub>3</sub> Sn React&Wind DEMO Conductor Prototype. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	5
15	Inter-Layer Joint of Nb <sub>3</sub> Sn React&Wind Cables for Fusion Magnets. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.7	4
16	New design of inter-layer splice joint for the TF coils of the DEMO- EUROfusion tokamak. Fusion Engineering and Design, 2017, 124, 49-53.	1.9	3
17	Qualification of the U.S. Conductors for ITER TF Magnet System. IEEE Transactions on Plasma Science, 2018, 46, 1477-1483.	1.3	3
18	Design and Characterization of the Interlayer Joint Between Low-Field Nb <sub>3</sub> Sn Conductors of a Layer Wound DEMO TF Coil. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-7.	1.7	3

#	ARTICLE	IF	CITATIONS
19	Test of PF1 Coil Electrical Joint. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-4.	1.7	2