

Shuoxue Jin

List of Publications by Year in descending order

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papers

728
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516561

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60
times ranked

427
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlation between Cu precipitates and irradiation defects in Fe-Cu model alloys investigated by positron annihilation spectroscopy. <i>Acta Materialia</i> , 2016, 103, 658-664.	3.8	78
2	Investigation of vacancy-type defects in helium irradiated FeCrNi alloy by slow positron beam. <i>Journal of Nuclear Materials</i> , 2015, 458, 240-244.	1.3	42
3	Ion irradiation-induced precipitation of Cr ₂₃ C ₆ at dislocation loops in austenitic steel. <i>Scripta Materialia</i> , 2013, 68, 138-141.	2.6	32
4	Microstructural evolution in nickel alloy C-276 after Ar ⁺ ion irradiation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2011, 269, 209-215.	0.6	29
5	Helium retention and thermal desorption from defects in Fe ₉ Cr binary alloys. <i>Journal of Nuclear Materials</i> , 2015, 466, 522-525.	1.3	29
6	Microstructural evolution of P92 ferritic/martensitic steel under argon ion irradiation. <i>Materials Characterization</i> , 2011, 62, 136-142.	1.9	28
7	Helium/hydrogen synergistic effect in reduced activation ferritic/martensitic steel investigated by slow positron beam. <i>Philosophical Magazine</i> , 2016, 96, 253-260.	0.7	27
8	Detection of helium in irradiated Fe ₉ Cr alloys by coincidence Doppler broadening of slow positron annihilation. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	1.1	24
9	Characterization of helium-vacancy complexes in He-ions implanted Fe ₉ Cr by using positron annihilation spectroscopy. <i>Journal of Nuclear Materials</i> , 2018, 505, 69-72.	1.3	24
10	TEM Characterization of Self-ion Irradiation Damage in Nickel-base Alloy C-276 at Elevated Temperature. <i>Journal of Materials Science and Technology</i> , 2012, 28, 1039-1045.	5.6	22
11	Helium self-trapping and diffusion behaviors in deformed 316L stainless steel exposed to high flux and low energy helium plasma. <i>Nuclear Fusion</i> , 2018, 58, 046011.	1.6	22
12	Microstructural evolution of P92 ferritic/martensitic steel under Ar ⁺ ion irradiation at elevated temperature. <i>Materials Characterization</i> , 2012, 68, 63-70.	1.9	21
13	Effect of dislocations on helium retention in deformed pure iron. <i>Journal of Nuclear Materials</i> , 2016, 482, 93-98.	1.3	21
14	Study on vacancy-type defects in SIMP steel induced by separate and sequential H and He ion implantation. <i>Journal of Nuclear Materials</i> , 2019, 520, 131-139.	1.3	21
15	Microstructural evolution in nickel alloy C-276 after Ar-ion irradiation at elevated temperature. <i>Materials Characterization</i> , 2012, 72, 8-14.	1.9	18
16	Influence of nanochannel structure on helium-vacancy cluster evolution and helium retention. <i>Journal of Nuclear Materials</i> , 2019, 527, 151822.	1.3	18
17	Effect of annealing on V m H n complexes in hydrogen ion irradiated Fe and Fe-0.3%Cu alloys. <i>Journal of Nuclear Materials</i> , 2015, 459, 301-305.	1.3	16
18	Investigation of spatial relationship between helium bubbles and dislocation loops in RAFM steel. <i>Journal of Nuclear Materials</i> , 2021, 548, 152862.	1.3	16

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19	Irradiation evolution of Cu precipitates in Fe1.0Cu alloy studied by positron annihilation spectroscopy. <i>Journal of Nuclear Materials</i> , 2018, 499, 65-70.	1.3	13
20	Dissolution of M23C6 and New Phase Re-Precipitation in Fe Ion-Irradiated RAFM Steel. <i>Metals</i> , 2018, 8, 349.	1.0	13
21	The influence of dislocation and hydrogen on thermal helium desorption behavior in Fe9Cr alloys. <i>Journal of Nuclear Materials</i> , 2017, 495, 244-248.	1.3	12
22	Effect of interaction between H and He on micro-defects in Fe9Cr alloy investigated by slow positron beam. <i>Journal of Nuclear Materials</i> , 2019, 526, 151748.	1.3	12
23	Insight into structural stability and helium diffusion behavior of Fe–Cr alloys from first-principles. <i>RSC Advances</i> , 2020, 10, 3277-3292.	1.7	12
24	Thermally promoted evolution of open-volume defects and Cu precipitates in the deformed FeCu alloys. <i>Journal of Nuclear Materials</i> , 2018, 501, 293-301.	1.3	11
25	Enhanced photoelectrochemical performance of TiO ₂ through controlled Ar ⁺ ion irradiation: A combined experimental and theoretical study. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 6936-6944.	3.8	11
26	Depth distributions of cavities in advanced ferritic/martensitic and austenitic steels with high helium preimplantation and high damage level. <i>Materials Today Energy</i> , 2021, 20, 100687.	2.5	11
27	Evolution of precipitate in nickel-base alloy 718 irradiated with argon ions at elevated temperature. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 307, 522-525.	0.6	10
28	Positron beam Doppler broadening spectra and nano-hardness study on helium and hydrogen irradiated RAFM steel. <i>Radiation Physics and Chemistry</i> , 2015, 107, 19-22.	1.4	9
29	Towards understanding the evolution of dislocation loops and their interaction with vacancies in Fe9Cr alloy during the irradiation swelling incubation period. <i>Materialia</i> , 2019, 5, 100241.	1.3	9
30	Characterization of oxide film in P92 ferritic-martensitic steel exposed to high temperature and pressure water. <i>Journal of Nuclear Materials</i> , 2020, 541, 152406.	1.3	9
31	Correlation between Corrosion Films and Corrosion-Related Defects Formed on 316 Stainless Steel at High Temperatures in Pressurized Water. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 3577-3585.	1.2	9
32	Effect of temperature and dose on vacancy-defect evolution in 304L stainless steel irradiated by triple ion beam. <i>Journal of Nuclear Materials</i> , 2018, 512, 94-99.	1.3	7
33	Thermal evolution of irradiation defects in ferritic/martensitic steel during isochronal annealing. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2018, 436, 35-39.	0.6	7
34	Enhancement of room temperature ferromagnetism in Mn-implanted Si by He implantation. <i>Applied Physics Letters</i> , 2012, 101, 132413.	1.5	6
35	Evolution of Thermally-Induced Microstructural Defects in the Fe–Cr Alloy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700349.	0.8	6
36	Structural Characterization of Nickel-Base Alloy C-276 Irradiated with Ar Ions. <i>Plasma Science and Technology</i> , 2012, 14, 548-552.	0.7	5

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37	The evolution of micro defects in He + irradiated FeCrNi alloy during isochronal annealing. Nuclear Instruments & Methods in Physics Research B, 2015, 356-357, 94-98.	0.6	5
38	Effect of annealing on Cu precipitates in H ion irradiated Fe-0.6%Cu studied by positron annihilation. Journal of Nuclear Materials, 2016, 479, 390-393.	1.3	5
39	Formation and recovery of Cu precipitates in Fe-Cu model alloys under varying heat treatment. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1600785.	0.8	5
40	Helium irradiation-induced defects in deformed 316L stainless steel. Philosophical Magazine, 2018, 98, 95-106.	0.7	5
41	Depth synergistic effect of irradiation damage on tungsten irradiated by He-ions with various energies. Journal of Nuclear Materials, 2019, 517, 192-200.	1.3	5
42	Evolution of defects with isochronal annealing in helium-irradiated 316L studied by slow positron beam. Nuclear Instruments & Methods in Physics Research B, 2020, 467, 80-85.	0.6	5
43	Effects of Ti element on the microstructural stability of 9Cr-WTiN reduced activation martensitic steel under ion irradiation. Journal of Nuclear Materials, 2014, 455, 37-40.	1.3	4
44	Stability and energetics of HenVm complexes in Fe-Cr alloys: Ab initio study. Materials Chemistry and Physics, 2020, 253, 123314.	2.0	4
45	Study on the interaction between He and defects induced by He-ion irradiation in W and W5Re alloy. Fusion Engineering and Design, 2021, 162, 112118.	1.0	4
46	Study of Interaction Mechanism between Positrons and Ag Clusters in Dilute Al-Ag Alloys at Low Temperature. Materials, 2021, 14, 1451.	1.3	4
47	The investigation of distribution on size and concentration of helium bubbles in Y-bearing ODS steel using by SAXS and GIXRD. Journal of Nuclear Materials, 2021, 554, 153083.	1.3	4
48	First-principles study of helium in austenitic Fe 6.3 at% Cr alloys: Structural, stability, energetics, and clustering with vacancies. Materials Today Communications, 2021, 29, 102837.	0.9	4
49	Positron Annihilation Spectroscopy Characterization of Formation of Helium/Hydrogen-Vacancy Nano-Clusters in FeCr Alloy. Acta Physica Polonica A, 2020, 137, 235-237.	0.2	4
50	Microstructural evolution of reduced-activation martensitic steel under single and sequential ion irradiations. Nuclear Instruments & Methods in Physics Research B, 2013, 307, 531-535.	0.6	2
51	Investigation of Helium Behavior in RAFM Steel by Positron Annihilation Doppler Broadening and Thermal Desorption Spectroscopy. Materials, 2018, 11, 1523.	1.3	2
52	Simulation for the correlation of positron annihilation rate with charge density near defects in iron. Nuclear Instruments & Methods in Physics Research B, 2019, 461, 88-92.	0.6	2
53	Effect of annealing temperature on the ferromagnetism of Co-implanted silicon. Nuclear Instruments & Methods in Physics Research B, 2013, 307, 404-407.	0.6	1
54	Inhibitory effect of dislocation on helium irradiation induced damage in Fe-9wt.%Cr alloy. Fusion Engineering and Design, 2020, 161, 111978.	1.0	1

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55	Characteristics of Solar Wind Radiation Damage in Lunar Soil: PAT and TEM Study. <i>Nanomaterials</i> , 2022, 12, 1135.	1.9	1
56	Improving the exploration of vacancy evolution in P92 alloy under Fe ion irradiation using positron annihilation. <i>Journal of Nuclear Materials</i> , 2022, , 153714.	1.3	1
57	Neutron Diffraction and SEM Study on CaO-Al ₂ O ₃ -SiO ₂ (ZnO-BaO-Na ₂ O) Glass-Ceramics Prepared Under Different Cooling Conditions. , 2010, , .		0
58	Cu precipitates in hydrogen ion irradiated Fe-0.3%Cu alloy investigated by positron annihilation spectroscopy. , 0, , .		0
59	Energy loss correction on multiple Coulomb scattering of muons simulated by Geant4. <i>Physica Scripta</i> , 0, , .	1.2	0