

# Roberto Boeri

## List of Publications by Year in descending order

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33  
papers

255  
citations

1040056

9  
h-index

996975

15  
g-index

34  
all docs

34  
docs citations

34  
times ranked

192  
citing authors

#	ARTICLE	IF	CITATIONS
1	Solidification of gray cast iron. Scripta Materialia, 2004, 50, 331-335.	5.2	70
2	Solidification macrostructure of spheroidal graphite cast iron. International Journal of Cast Metals Research, 2001, 13, 307-313.	1.0	31
3	Determination of effective elastic properties of ferritic ductile cast iron by computational homogenization, micrographs and microindentation tests. Mechanics of Materials, 2015, 83, 110-121.	3.2	24
4	Study of shrinkage porosity in spheroidal graphite cast iron. International Journal of Cast Metals Research, 2016, 29, 112-120.	1.0	16
5	Characterization of the austemperability of partially austenitized ductile iron. Journal of Materials Processing Technology, 2013, 213, 1801-1809.	6.3	14
6	Study of the solidification structure of compacted graphite cast iron. International Journal of Cast Metals Research, 2016, 29, 266-271.	1.0	11
7	Relation between microstructural heterogeneities and damage mechanisms of a ferritic spheroidal graphite cast iron during tensile loading. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 1262-1273.	3.4	11
8	Macro and microstructural characterisation of high Si cast steels – Study of microsegregation patterns. International Journal of Cast Metals Research, 2017, 30, 103-111.	1.0	9
9	Effect of microsegregation on carbide-free bainitic transformation in a high-silicon cast steel. Materials Science and Technology, 2020, 36, 690-698.	1.6	9
10	Assessment of the austemperability of high-silicon cast steels through Jominy hardenability tests. Materials Science and Technology, 2018, 34, 1990-2000.	1.6	7
11	Identification of Cu-rich precipitates in pearlitic spheroidal graphite cast irons. Materials Science and Technology, 2019, 35, 2252-2258.	1.6	7
12	In-situ microscopic analysis of ferritic ductile iron during tensile loading: Relation between matrix heterogeneities and damage mechanisms. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 2220-2231.	3.4	7
13	Solidification, Macrostructure and Shrinkage Formation of Ductile and Compacted Irons. International Journal of Metalcasting, 2020, 14, 1172-1182.	1.9	7
14	Study of austempering kinetics of high silicon bainitic cast steels. International Journal of Cast Metals Research, 2019, 32, 21-30.	1.0	4
15	Mechanism of Damage of Ferritic Ductile Iron, Influence of Matrix Heterogeneity. Materials Science Forum, 0, 925, 288-295.	0.3	3
16	EBSD Analysis of the Primary Austenite Grains in Lamellar Graphite Cast Iron. Metallography, Microstructure, and Analysis, 2019, 8, 386-392.	1.0	3
17	Examination of the Size and Morphology of Austenite Grains in Lamellar Graphite Cast Iron. International Journal of Metalcasting, 2020, 14, 689-695.	1.9	3
18	Analysis of Splitting and Martensitic Transformation of AlNi Intermetallic Obtained by Transient Liquid Phase Bonding. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 916-924.	2.1	3

#	ARTICLE	IF	CITATIONS
19	Characterization of Nonmetallic Inclusions of Alâ€Killed Caâ€Treated Steels by Automated SEM/EDS and Its Application to Industrial Case Studies. <i>Steel Research International</i> , 2022, 93, .	1.8	3
20	Mechanical properties of a carbide-free bainitic cast steel with dispersed free ferrite. <i>Materials Science and Technology</i> , 2020, 36, 108-117.	1.6	2
21	Influence of silicon content on mechanical properties of IADI obtained from as cast microstructures. <i>International Journal of Cast Metals Research</i> , 2020, 33, 72-79.	1.0	2
22	Damage evolution during tensile test of austempered ductile iron partially austenized. <i>Material Design and Processing Communications</i> , 2020, 2, e157.	0.9	2
23	Evolution of the Macrostructure of Gray Cast Iron from Eutectic to Hypereutectic Composition. <i>Materials Science Forum</i> , 2018, 925, 110-117.	0.3	1
24	About Equilibrium Mode Ruling Ferritic Transformation in Low-Alloy SGI. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 5585-5593.	2.2	1
25	Microstrain measurements and damage analysis during tensile loading of intercritical austempered ductile iron. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020, 43, 2744-2755.	3.4	1
26	Development of ultra-high strength carbide-free bainitic cast steels. <i>International Journal of Cast Metals Research</i> , 2020, 33, 258-265.	1.0	1
27	Influence of the Austempering Time on the Mechanical Properties of Carbide-Free Bainitic Cast Steels. <i>International Journal of Metalcasting</i> , 2021, 15, 906-915.	1.9	1
28	Ferrite Growth During Cooling Through the Ferrite-Austenite-Graphite Field in SGI. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 631-637.	2.2	0
29	Formation of Cu-rich Nanoprecipitates in Cu Containing Pearlitic SGI. <i>International Journal of Metalcasting</i> , 2020, 15, 1164.	1.9	0
30	Influence of Microshrinkage Cavities on the Plastic Deformation and Fracture Under Tensile Loading in Ferritic Ductile Iron. <i>International Journal of Metalcasting</i> , 2021, 15, 1084-1090.	1.9	0
31	Micromechanical characterization of ferritic ductile cast iron by using instrumented indentation and atomic force microscopy. <i>Material Design and Processing Communications</i> , 2021, 3, e206.	0.9	0
32	TEM and Synchrotron X-ray Study of the Evolution of Phases Formed During Bonding of IN718/Al/IN718 Couples by TLPB. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021, 52, 1382-1394.	2.2	0
33	Microstructure Evolution and Phase Identification in Ni-Based Superalloy Bonded by Transient Liquid Phase Bonding. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021, 52, 1695-1707.	2.1	0