

# Ping Tang

## List of Publications by Year in descending order

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Development of Fluoride-free Mold Powders for Peritectic Steel Slab Casting. ISIJ International, 2007, 47, 1117-1125.	1.4	131
2	The Influence of Al <sub>2</sub> O <sub>3</sub> /SiO <sub>2</sub> Ratio on the Viscosity of Mold Fluxes. ISIJ International, 2008, 48, 739-746.	1.4	83
3	Effects of the composition on the structure and viscosity of the CaO-SiO <sub>2</sub> -based mold flux. Journal of Non-Crystalline Solids, 2016, 435, 33-39.	3.1	50
4	Effect of Al Speciation on the Structure of High-Al Steels Mold Fluxes Containing Fluoride. Journal of the American Ceramic Society, 2016, 99, 3941-3947.	3.8	47
5	Effect of slag-steel reaction on the structure and viscosity of CaO-SiO <sub>2</sub> -based mold flux during high-Al steel casting. Journal of Non-Crystalline Solids, 2016, 452, 119-124.	3.1	45
6	Behavior of Mold Slag Used for 20Mn23Al Nonmagnetic Steel During Casting. Journal of Iron and Steel Research International, 2011, 18, 20-25.	2.8	42
7	Crystallization Behaviors of Mold Fluxes Containing Li <sub>2</sub> O Using Single Hot Thermocouple Technique. ISIJ International, 2009, 49, 843-850.	1.4	38
8	The Influence of Na <sub>2</sub> O on the Solidification and Crystallization Behavior of CaO-SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> -Based Mold Flux. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 1850-1859.	2.1	35
9	CCT and TTT diagrams to characterize crystallization behavior of mold fluxes. Journal of Iron and Steel Research International, 2008, 15, 32-37.	2.8	30
10	Viscosity and Viscosity Estimate Model of Fluoride-Free and Titanium-Bearing Mold Fluxes. Journal of Iron and Steel Research International, 2010, 17, 6-10.	2.8	27
11	Effect of Cooling Rate on the Precipitation Behavior of Carbonitride in Microalloyed Steel Slab. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2011, 42, 81-86.	2.1	27
12	Simulation and Characterization on Heat Transfer through Mould Slag Film. ISIJ International, 2012, 52, 1179-1185.	1.4	22
13	Development and Evaluation of CaO-SiO <sub>2</sub> Based Mould Fluxes for Casting High Aluminum TRIP Steel. Steel Research International, 2015, 86, 110-120.	1.8	19
14	Influence of Raw Material Type on Heat Transfer and Structure of Mould Slag. ISIJ International, 2011, 51, 1028-1032.	1.4	19
15	Heat flux through slag film and its crystallization behavior. Journal of Iron and Steel Research International, 2008, 15, 7-11.	2.8	18
16	Effect of Al <sub>2</sub> O <sub>3</sub> on the fluoride volatilization during melting and ion release in water of mold flux. Journal of Non-Crystalline Solids, 2015, 409, 8-13.	3.1	18
17	Periodicity of Carbon Element Distribution Along Casting Direction in Continuous-Casting Billet by Using Singular Spectrum Analysis. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 1817-1826.	2.1	15
18	Non-isothermal Crystallization Kinetics of Mold Fluxes Containing Li <sub>2</sub> O for High Aluminum Steel Casting. Steel Research International, 2016, 87, 880-889.	1.8	15

#	ARTICLE	IF	CITATIONS
19	A Comprehensive Investigation on the Microstructure and Thermal Conductivity of CaO-Al <sub>2</sub> O <sub>3</sub> Based Mold Slags: Equilibrium Molecular Dynamics Simulations. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 1574-1581.	2.1	15
20	Characteristics of heat flux through slag film of mold slag used for high Al-TRIP steel casting. Journal of Iron and Steel Research International, 2010, 17, 11-16.	2.8	14
21	A Novel Approach for Evaluating the Contraction of Hypo-Peritectic Steels during Initial Solidification by Surface Roughness. Materials, 2018, 11, 571.	2.9	14
22	Morphology characteristics of solidification structure in high-carbon steel billet based on fractal theory. Journal of Materials Science, 2019, 54, 12851-12862.	3.7	12
23	Evolution of Temperature and Solid Slag Film During Solidification of Mold Fluxes. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 1292-1307.	2.1	11
24	Effect of $\text{CaO-SiO}_2\text{-Al}_2\text{O}_3\text{-O}$ on Crystallization Behavior of $\text{CaO-SiO}_2\text{-Al}_2\text{O}_3\text{-O}$ Continuous Casting Mold Flux. ISIJ International, 2019, 59, 367-374.	1.4	11
25	Effect of Shear Stress on Isothermal Crystallization Behavior of CaO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> -Na <sub>2</sub> O-CaF <sub>2</sub> Slags. Materials, 2018, 11, 1085.	2.9	10
26	Qualitative, Quantitative and Mechanism Research of Volatiles in the Most Commonly Used CaO-SiO <sub>2</sub> -CaF <sub>2</sub> -Na <sub>2</sub> O Slag During Casting Process. Transactions of the Indian Institute of Metals, 2021, 74, 775-782.	1.5	10
27	A multivariate linear regression method based on an improved rate equation to determine parameters of nonisothermal crystallization kinetics. Thermochemica Acta, 2017, 656, 1-9.	2.7	9
28	Study of Ferrite During Refinement of Prior Austenite Grains in Microalloyed Steel Continuous Casting. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 3074-3082.	2.1	9
29	Analysis of Crack Susceptibility of Peritectic Steels Based on Surface Roughness. Steel Research International, 2020, 91, 1900376.	1.8	9
30	In situ observation and numerical simulation of bubble behavior in CaO-SiO <sub>2</sub> based slag during isothermal and nonisothermal processes. Journal of Non-Crystalline Solids, 2017, 464, 56-72.	3.1	8
31	Fluid Flow and Inclusion Motion in a Multi-Heat Teeming Tundish for Heavy Steel Ingot. Journal of Iron and Steel Research International, 2012, 19, 19-26.	2.8	7
32	Improvement of tundish shape and optimization of flow control devices for sequence casting heavy steel ingots. International Journal of Minerals, Metallurgy and Materials, 2012, 19, 15-20.	4.9	7
33	Study of the Effect of Carbon on the Contraction of Hypo-Peritectic Steels during Initial Solidification by Surface Roughness. Metals, 2018, 8, 982.	2.3	7
34	Effect of Al <sub>2</sub> O <sub>3</sub> on non-Newtonian property and its relation to structure of mold fluxes during shear stress field at 1573ÅK. Journal of Non-Crystalline Solids, 2020, 547, 120312.	3.1	7
35	Effects of temperature on the thermal conductivity of amorphous CaO-SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> slags: a computational insight. Physical Chemistry Chemical Physics, 2020, 22, 8808-8816.	2.8	7
36	Effect of Slab Subsurface Microstructure Evolution on Transverse Cracking of Microalloyed Steel during Continuous Casting. Journal of Iron and Steel Research International, 2014, 21, 737-744.	2.8	6

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37	Effect of Bubbles on Crystallization Behavior of CaO-SiO <sub>2</sub> Based Slags. <i>Metals</i> , 2019, 9, 193.	2.3	6
38	Computational Insight into the Thermal Conductivity of CaO-SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> -MgO-Na <sub>2</sub> O Melts. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020, 51, 2391-2399.	2.1	6
39	Modification for prediction model of austenite grain size at surface of microalloyed steel slabs based on in situ observation. <i>Journal of Iron and Steel Research International</i> , 2021, 28, 1133-1140.	2.8	6
40	An Application of Fractal Theory to Complex Macrostructure: Quantitatively Characterization of Segregation Morphology. <i>ISIJ International</i> , 2020, 60, 1188-1195.	1.4	6
41	Quantification of crystalline fraction of solid slag film using X-ray powder diffraction. <i>Powder Diffraction</i> , 2016, 31, 40-51.	0.2	5
42	A Novel Method for Evaluating the Combustion Characteristics of Carbon Materials and Mold Fluxes. <i>Steel Research International</i> , 2021, 92, 2000416.	1.8	5
43	Investigation in CaO-SiO <sub>2</sub> -CaF <sub>2</sub> -C slags during the sintering and melting process. <i>Ironmaking and Steelmaking</i> , 2022, 49, 199-207.	2.1	4
44	The role of carbonaceous materials in mold powder and influence on melting behavior. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 10965-10975.	3.6	4
45	Fluid Flow and Heat Transfer Behaviors under Non-Isothermal Conditions in a Four-Strand Tundish. <i>Metals</i> , 2022, 12, 840.	2.3	4
46	Effect of $\delta$ Phase Transformation on Refining Austenite Grains of Microalloyed Steel in Continuous Casting by Simulation. <i>High Temperature Materials and Processes</i> , 2016, 35, 653-659.	1.4	3
47	Study on Binder of Cold-Bonded Pellets Containing Basic Oxygen Furnace Dust Based on Hydration Mechanism of Magnesium Potassium Phosphate Cementitious Material. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020, 51, 2400-2412.	2.1	3
48	Optimization on Temperature Strategy of BOF Vanadium Extraction to Enhance Vanadium Yield with Minimum Carbon Loss. <i>Metals</i> , 2021, 11, 906.	2.3	3
49	A Model Estimating the Slab Corner Transverse Cracking Susceptibility of Microalloyed Steel Based on Microstructure. <i>Materials Transactions</i> , 2016, 57, 20-24.	1.2	2
50	Investigation of the End-Point Temperature Control Based on the Critical Temperature of Vanadium Oxidation During the Vanadium Extraction Process in BOF. <i>Transactions of the Indian Institute of Metals</i> , 2018, 71, 1957-1961.	1.5	2
51	Structure Evolution and Crystallization Behavior of CaO-SiO <sub>2</sub> -Based Slags with Varying Carbon. <i>Transactions of the Indian Institute of Metals</i> , 2020, 73, 2785-2794.	1.5	2
52	Hydration and Crystallization Behavior of MgO in Cold-Bonded Pellets Containing Basic Oxygen Furnace Dust. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020, 51, 1016-1026.	2.1	2
53	Investigation on Thermal Conductivity and Solidification Process of Molten Slags by Using Copper Finger Dip Test. <i>Transactions of the Indian Institute of Metals</i> , 2019, 72, 3139-3151.	1.5	0
54	Effect of Shear Stress on Viscosity and Crystallization Behavior of CaO-SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> Based Mold Fluxes. <i>Key Engineering Materials</i> , 2020, 847, 87-92.	0.4	0

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55	Characterization of Solidification Structure Morphology in High-Carbon Steel Billet by Fractal Dimension. Minerals, Metals and Materials Series, 2021, , 69-79.	0.4	0
56	Strength and Bonding Mechanism of Nonhydraulic Cementitious Binders: Reutilization of MgO in Basic Oxygen Furnace Dust. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 1322-1332.	2.1	0