

Oleg Ostrovski

List of Publications by Year in descending order

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68
papers

1,780
citations

218662

26
h-index

302107

39
g-index

72
all docs

72
docs citations

72
times ranked

1132
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Characterization of phases formed in the iron carbide process by X-ray diffraction, mossbauer, X-ray photoelectron spectroscopy, and raman spectroscopy analyses. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2001, 32, 839-845. | 2.1 | 97 |
| 2 | Reduction and carburization of metal oxides by methane-containing gas. AICHE Journal, 2006, 52, 300-310. | 3.6 | 96 |
| 3 | Reduction of Titania-Ferrous Ore by Carbon Monoxide. ISIJ International, 2003, 43, 1316-1325. | 1.4 | 92 |
| 4 | Carbothermal Reduction of Titania in Different Gas Atmospheres. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2009, 40, 62-69. | 2.1 | 73 |
| 5 | Effects of Preoxidation of Titania-Ferrous Ore on the Ore Structure and Reduction Behavior. ISIJ International, 2004, 44, 74-81. | 1.4 | 68 |
| 6 | Reduction of titania by methane-hydrogen-argon gas mixture. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2000, 31, 129-139. | 2.1 | 62 |
| 7 | Solid-state reduction of chromium oxide by methane-containing gas. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2004, 35, 609-615. | 2.1 | 56 |
| 8 | Carbothermal Reduction of a Primary Ilmenite Concentrate in Different Gas Atmospheres. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2010, 41, 182-192. | 2.1 | 52 |
| 9 | Synthesis of SiC whiskers by VLS and VS process. Ceramics International, 2016, 42, 5668-5676. | 4.8 | 52 |
| 10 | Carbothermal Reduction of Manganese Oxide in Different Gas Atmospheres. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2008, 39, 662-668. | 2.1 | 44 |
| 11 | Carbothermal Reduction and Nitridation of Ilmenite Concentrates. ISIJ International, 2012, 52, 363-368. | 1.4 | 42 |
| 12 | Melting Properties and Viscosity of $\text{SiO}_2\text{-CaO-Al}_2\text{O}_3\text{-B}_2\text{O}_3$ System. Steel Research International, 2015, 86, 670-677. | 1.8 | 40 |
| 13 | Effects of CaO/SiO ₂ Ratio and Na ₂ O Content on Melting Properties and Viscosity of SiO ₂ -CaO-Al ₂ O ₃ -B ₂ O ₃ -Na ₂ O Mold Fluxes. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 516-526. | 2.1 | 40 |
| 14 | Effects of Annealing on Microstructure and Microstrength of Metallurgical Coke. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 106-112. | 2.1 | 39 |
| 15 | Reduction of Manganese Oxides by Methane-containing Gas. ISIJ International, 2004, 44, 1480-1487. | 1.4 | 38 |
| 16 | The equilibrium partitioning of titanium between Ti ³⁺ and Ti ⁴⁺ valency states in CaO-SiO ₂ -TiO _x slags. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2002, 33, 61-67. | 2.1 | 36 |
| 17 | Coke Degradation under Simulated Blast Furnace Conditions. ISIJ International, 2016, 56, 786-793. | 1.4 | 36 |
| 18 | Phase compositions of manganese ores and their change in the process of calcination. International Journal of Mineral Processing, 2010, 94, 101-110. | 2.6 | 35 |

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|----|---|-----|-----------|
| 19 | Changes in Pore Structure of Metallurgical Cokes under Blast Furnace Conditions. Energy & Fuels, 2016, 30, 161-170. | 5.1 | 33 |
| 20 | Dissolution of Dense Lime in Molten Slags under Static Conditions. ISIJ International, 2007, 47, 32-37. | 1.4 | 32 |
| 21 | Carbothermal Solid State Reduction of Manganese Ores: 3. Phase Development. ISIJ International, 2009, 49, 1115-1122. | 1.4 | 32 |
| 22 | Carbothermal Reduction and Nitridation of Titanium Dioxide in a H_2/N_2 Gas Mixture. Journal of the American Ceramic Society, 2011, 94, 3804-3811. | 3.8 | 31 |
| 23 | Carbothermal Solid State Reduction of Manganese Ores: 2. Non-isothermal and Isothermal Reduction in Different Gas Atmospheres. ISIJ International, 2009, 49, 1107-1114. | 1.4 | 30 |
| 24 | Effect of B_2O_3 on Crystallization Behavior, Structure, and Heat Transfer of $CaO-SiO_2-B_2O_3-Na_2O-TiO_2-Al_2O_3-MgO-Li_2O$ Mold Fluxes. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 2077-2091. | 2.1 | 29 |
| 25 | Effect of Gas Atmosphere on Carbothermal Reduction and Nitridation of Titanium Dioxide. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2012, 43, 73-81. | 2.1 | 28 |
| 26 | Effects of Fluorine on Solidification, Viscosity, Structure, and Heat Transfer of $CaO-Al_2O_3$ -Based Mold Fluxes. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 1766-1772. | 2.1 | 27 |
| 27 | Effect of coal properties on the strength of coke under simulated blast furnace conditions. Fuel, 2019, 237, 775-785. | 6.4 | 27 |
| 28 | Effects of B_2O_3 on Crystallization, Structure, and Heat Transfer of $CaO-Al_2O_3$ -Based Mold Fluxes. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 291-303. | 2.1 | 27 |
| 29 | Ore Melting and Reduction in Silicomanganese Production. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2010, 41, 1220-1229. | 2.1 | 25 |
| 30 | In-situ Study of Crystallization Behavior of a Mold Flux Using Single and Double Hot Thermocouple Technique. Steel Research International, 2015, 86, 636-643. | 1.8 | 25 |
| 31 | In-situ Study of Crystallisation Behaviour of $CaO-SiO_2-Na_2O-B_2O_3-O_2-TiO_2$ Fluorine-free Mould Fluxes with Different CaO/SiO_2 Ratios. ISIJ International, 2016, 56, 574-583. | 1.4 | 25 |
| 32 | Crystallization Behavior and Heat Transfer of Fluorine-Free Mold Fluxes with Different Na_2O Concentration. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 2447-2458. | 2.1 | 25 |
| 33 | Carbothermal Solid State Reduction of Manganese Ores: 1. Manganese Ore Characterisation. ISIJ International, 2009, 49, 1099-1106. | 1.4 | 24 |
| 34 | Effect of $Al_2O_3/(B_2O_3+Na_2O)$ Ratio on $CaO-Al_2O_3$ -Based Mold Fluxes: Melting Property, Viscosity, Heat Transfer, and Structure. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 2794-2803. | 2.1 | 24 |
| 35 | Effect of Alumina on the Gaseous Reduction of Magnetite in CO/CO_2 Gas Mixtures. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 1175-1185. | 2.1 | 23 |
| 36 | Effect of Annealing on Properties of Carbonaceous Materials. Part II: Porosity and Pore Geometry. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2013, 44, 862-869. | 2.1 | 22 |

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|----|---|-----|-----------|
| 37 | Chlorination of Titanium Oxycarbonitride Produced by Carbothermal Nitridation of Rutile. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 779-787. | 3.7 | 21 |
| 38 | Chlorination of Titanium Oxycarbide Produced by Carbothermal Reduction of Rutile. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2008, 39, 23-34. | 2.1 | 18 |
| 39 | Carbothermal Reduction of Quartz in Different Gas Atmospheres. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2015, 46, 1343-1352. | 2.1 | 18 |
| 40 | Wettability and Reduction of MnO in Slag by Carbonaceous Materials. <i>ISIJ International</i> , 2010, 50, 639-646. | 1.4 | 15 |
| 41 | Low-temperature Synthesis of Aluminium Carbide. <i>ISIJ International</i> , 2011, 51, 870-877. | 1.4 | 14 |
| 42 | Effect of Annealing on Properties of Carbonaceous Materials. Part III: Macro and Microstrengths. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2013, 44, 870-877. | 2.1 | 14 |
| 43 | Carbothermal Reduction of Quartz in Methane-Hydrogen-Argon Gas Mixture. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2015, 46, 2384-2393. | 2.1 | 14 |
| 44 | Reduction of Quartz to Silicon Monoxide by Methane-Hydrogen Mixtures. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016, 47, 2197-2204. | 2.1 | 14 |
| 45 | Effect of gas atmosphere on the formation of silicon by reaction of SiC and SiO ₂ . <i>Journal of Materials Science</i> , 2016, 51, 876-884. | 3.7 | 13 |
| 46 | Wetting of Solid Iron, Nickel and Platinum by Liquid Mn-SiO ₂ and Ca-Al ₂ O ₃ -SiO ₂ . <i>ISIJ International</i> , 2009, 49, 788-795. | 1.4 | 12 |
| 47 | Dynamic Wetting of High-Al Steel by CaO-SiO ₂ - and CaO-Al ₂ O ₃ -Based Mold Fluxes. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019, 50, 2175-2185. | 2.1 | 12 |
| 48 | Effects of Temperature and Gas Composition on Reduction and Swelling of Magnetite Concentrates. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016, 47, 2263-2278. | 2.1 | 11 |
| 49 | Formation of a Network Structure in the Gaseous Reduction of Magnetite Doped with Alumina. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017, 48, 889-899. | 2.1 | 11 |
| 50 | Interfacial Reaction Between High-Al Steel and CaO-Al ₂ O ₃ -Based Mold Fluxes with Different CaO/Al ₂ O ₃ Ratios at 1773 K (1500 Å°C). <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019, 50, 2636-2646. | 2.1 | 11 |
| 51 | In-Situ Study of Gaseous Reduction of Magnetite Doped with Alumina Using High-Temperature XRD Analysis. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2015, 46, 2564-2572. | 2.1 | 10 |
| 52 | Effect of MgO on Crystallization and Heat Transfer of Fluoride-Free Mold Fluxes. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018, 49, 3097-3106. | 2.1 | 10 |
| 53 | Stability of Fluorine-Free CaO-SiO ₂ -Al ₂ O ₃ -B ₂ O ₃ -Na ₂ O Mold Fluxes. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017, 48, 1055-1063. | 2.1 | 9 |
| 54 | Trace Elements in the Si Furnace. Part I: Behavior of Impurities in Quartz During Reduction. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2013, 44, 233-243. | 2.1 | 8 |

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|----|---|-----|-----------|
| 55 | Slags in Production of Manganese Alloys. Steel Research International, 2013, 84, 680-686. | 1.8 | 8 |
| 56 | Phase Equilibria of Fluoride-Free Boracic Mould Flux for Steel Continuous Casting. Steel Research International, 2015, 86, 662-669. | 1.8 | 7 |
| 57 | Effect of Na ₂ O on the Interfacial Reaction between CaO-Al ₂ O ₃ -based Mold Fluxes and High-Al Steel at 1500°C. ISIJ International, 2019, 59, 2247-2255. | 1.4 | 7 |
| 58 | Dissolution Rate and Diffusivity of Silica in SiMn Slag. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 101-108. | 2.1 | 5 |
| 59 | Effect of CaO/Al ₂ O ₃ ratio on viscosity and structure of CaO-Al ₂ O ₃ -based fluoride-free mould fluxes. Journal of Iron and Steel Research International, 2019, 26, 374. | 2.8 | 5 |
| 60 | Challenges in the Mold Flux Design: Development of F ₂ -Free Fluxes and Fluxes for Casting of High-Al Steel. Steel Research International, 2022, 93, 2100123. | 1.8 | 5 |
| 61 | Changes of Effective Binary Diffusivity of Silica and Viscosity of Silicomanganese Slag in the Process of Reduction of MnO and SiO ₂ . Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 88-94. | 2.1 | 4 |
| 62 | Effect of Na ₂ O on Properties, Structure, and Crystallization of CaO-Al ₂ O ₃ -Based Mold Fluxes. Steel Research International, 2022, 93, 2100193. | 1.8 | 4 |
| 63 | Sintering Pot Test of Manganese Ore with Addition of Manganese Furnace Dust. ISIJ International, 2007, 47, 234-239. | 1.4 | 3 |
| 64 | Carbon Solubility and Phase Composition of Silicomanganese. Steel Research International, 2006, 77, 227-233. | 1.8 | 2 |
| 65 | Diffusion Coefficients and Structural Parameters of Molten Slags. , 2016, , 493-500. | | 2 |
| 66 | The Use of Natural Gas for Reduction of Metal Oxides: Constraints and Prospects. , 2014, , 529-536. | | 1 |
| 67 | The Use of Natural Gas for Reduction of Metal Oxides: Constraints and Prospects. , 0, , 529-536. | | 1 |
| 68 | Remelting of scrap containing tungsten and nickel in the electric arc furnace. Steel Research = Archiv FÄr Das EisenhÄttenwesen, 1994, 65, 429-432. | 0.3 | 0 |