Govind Gupta

List of Publications by Year in descending order

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57 papers	881 citations	430874 18 h-index	526287 27 g-index
58 all docs	58 docs citations	58 times ranked	522 citing authors

#	Article	IF	Citations
1	Quantification of powder holdups in the presence of a cavity with lateral gasâ€“powder injection in a packed bed. Canadian Journal of Chemical Engineering, 2023, 101, 883-895.	1.7	3
2	Quantitative Measurement of Powder Holdups in the Packed Beds. Transactions of the Indian Institute of Metals, 2022, 75, 381-395.	1.5	4
3	Validation of Pressure Drop in Gasâ€“Fine Flow in a Packed Bed with Various Types of Injection System (Lateral and Bottom). Transactions of the Indian Institute of Metals, 2020, 73, 2081-2087.	1.5	6
4	Silicon carbide formation by carbothermal reduction in the Acheson process: A hot model study. Thermochimica Acta, 2020, 687, 178577.	2.7	9
5	Modelling of shaft based processes. Mineral Processing and Extractive Metallurgy: Transactions of the Institute of Mining and Metallurgy, 2020, 129, 157-165.	0.2	3
6	An Analysis of Heat Distribution in the Production of SiC Process. Procedia Manufacturing, 2019, 30, 64-70.	1.9	1
7	Raceway Formation in a Moving Bed. ISIJ International, 2018, 58, 1396-1401.	1.4	14
8	Study of Two Phase Emulsion Systems. Transactions of the Indian Institute of Metals, 2017, 70, 2027-2038.	1.5	3
9	Carburizing: Pack. , 2016, , 643-651.		1
10	Some Thermodynamic Aspects of the Oxides of Chromium. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 338-344.	2.1	23
11	Processing of enriched elemental boron (10BÂâ¼Â65Âat. %). Materials Chemistry and Physics, 2013, 140, 335-342.	4.0	7
12	Structural characterization of electrodeposited boron. Bulletin of Materials Science, 2013, 36, 1323-1329.	1.7	10
13	Heat Transfer Model for Metal Carbide Production. Transactions of the Indian Ceramic Society, 2012, 71, 247-249.	1.0	0
14	Influence of Bottom Bubbling Rate on Formation of Metal Emulsion in Al^|^ndash;Cu Alloy and Molten Salt System. ISIJ International, 2012, 52, 1018-1025.	1.4	17
15	Modeling of Ascending/Descending Velocity of Metal Droplet Emulsified in Pb-Salt System. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2012, 43, 973-983.	2.1	14
16	Study of Fluid Flow and Mixing Behaviour of a Vacuum Degasser. Transactions of the Indian Institute of Metals, 2012, 65, 321-331.	1.5	14
17	Kinetics of oxidation of boron powder. Thermochimica Acta, 2011, 514, 67-73.	2.7	49
18	Numerical study of gas-fines flow characteristics in a packed bed with the presence of internal blocks. International Journal of Engineering Systems Modelling and Simulation, 2010, 2, 204.	0.2	0

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19	Studies on the ignition behaviour of boron powder. Thermochimica Acta, 2010, 500, 63-68.	2.7	51
20	Microstructure and Properties of the Spray-Formed and Extruded 7075 Al Alloy. Materials and Manufacturing Processes, 2010, 25, 777-785.	4.7	23
21	Determination of the thermodynamic stability of TiB2. Journal of Alloys and Compounds, 2010, 491, 747-752.	5.5	23
22	Effect of Bottom Bubbling Conditions on Surface Reaction Rate in Oxygenâ€“Water System. ISIJ International, 2010, 50, 89-94.	1.4	11
23	Computational Fluid Dynamics Study of New Vacuum Degassing Process. Chemical Product and Process Modeling, 2009, 4, .	0.9	1
24	Temperature measurements in the boron carbide manufacturing process â€“ A hot model study. International Journal of Refractory Metals and Hard Materials, 2009, 27, 621-628.	3.8	9
25	Core temperature measurement in carbothermal reduction processes. Thermochimica Acta, 2009, 482, 66-71.	2.7	6
26	The Influence of Processing Parameters on Characteristics of an Aluminum Alloy Spray Deposition. Materials and Manufacturing Processes, 2009, 24, 693-699.	4.7	8
27	Two-Dimensional Mathematical Modeling of the Pack Carburizing Process. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2008, 39, 2424-2434.	2.2	4
28	Modeling of gas flow inside and outside the nozzle used in spray deposition. Journal of Materials Processing Technology, 2008, 203, 471-479.	6.3	12
29	Behavior of Granular Material in Packed Bed Under Influence of Gas Injected Through a Nozzle. Particulate Science and Technology, 2008, 26, 214-221.	2.1	3
30	Prediction of Raceway Shape and Size. ISIJ International, 2007, 47, 1738-1744.	1.4	30
31	Study of gas cavity size hysteresis in a packed bed using DEM. Chemical Engineering Science, 2007, 62, 6102-6111.	3.8	18
32	Quantification of Liquid Holdup in the Dropping Zone of a Blast Furnaceâ€”A Cold Model Study. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2007, 38, 203-213.	2.1	9
33	Modeling of Liquid Flow in a Packed Bed in the Presence of Gas Flow. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2007, 38, 401-411.	2.1	5
34	Development of a Two-Dimensional Mathematical Model for Stress and Velocity Distribution in a Packed Bed. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2007, 38, 965-975.	2.1	10
35	Comparison of Blast Furnace Raceway Size with Theory. ISIJ International, 2006, 46, 195-201.	1.4	33
36	A discrete model for non-wetting liquid flow from a point source in a packed bed under the influence of gas flow. Chemical Engineering Science, 2006, 61, 6855-6866.	3.8	6

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37	Modelling of void initiation and breaking phenomena in a packed bed. Ironmaking and Steelmaking, 2006, 33, 101-110.	2.1	7
38	PREDICTION OF MINIMUM SPOUTING VELOCITY IN TWO-DIMENSIONAL FLAT BOTTOM SPOUTED BEDS. Chemical Engineering Communications, 2006, 193, 338-362.	2.6	5
39	Local liquid holdups and hysteresis in a 2-D packed bed using X-ray radiography. AICHE Journal, 2005, 51, 2178-2189.	3.6	35
40	Mechanics of raceway hysteresis in a packed bed. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2005, 36, 755-764.	2.1	19
41	New Calibration Technique for X-ray Absorption Studies in Single and Multiphase Flows in Packed Bed. ISIJ International, 2004, 44, 50-58.	1.4	14
42	Prediction of Raceway Size in Blast Furnace from Two Dimensional Experimental Correlations. ISIJ International, 2004, 44, 1298-1307.	1.4	43
43	An Object-Oriented Modeling Approach in Materials Processing: Case Study of the Acheson and Carburizing Processes. Materials and Manufacturing Processes, 2004, 19, 221-242.	4.7	0
44	A cold model study of raceway hysteresis. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2003, 34, 183-191.	2.1	29
45	Importance of frictional forces on the formation of cavity in a packed bed under cross flow of gas. Powder Technology, 2003, 134, 72-85.	4.2	25
46	Cold model study of raceway under mixed particle conditions. Ironmaking and Steelmaking, 2003, 30, 61-65.	2.1	33
47	Liquid Holdup in Non-wetting Packing with Lateral Gas Injection. ISIJ International, 2003, 43, 1927-1935.	1.4	15
48	Void Formation and Breaking in a Packed Bed.. ISIJ International, 2003, 43, 153-160.	1.4	27
49	MEASUREMENT OF AXIAL DISPERSION COEFFICIENT IN A PACKED BED USING X-RAY. Materials and Manufacturing Processes, 2002, 17, 683-692.	4.7	2
50	Modelling, simulation, and graphical user interface for industrial gas carburising process. Materials Science and Technology, 2002, 18, 1188-1194.	1.6	10
51	Heat-transfer model for the acheson process. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2001, 32, 1301-1308.	2.2	16
52	Nonwetting flow of a liquid through a packed bed with gas cross-flow. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 1997, 28, 597-604.	2.1	24
53	Model Studies of Liquid Flow in the Blast Furnace Lower Zone.. ISIJ International, 1996, 36, 32-39.	1.4	50
54	Expression and Regulation of Insulin-Like Growth Factor-I in the Rat Incisor. Growth Factors, 1993, 8, 267-275.	1.7	59

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55	Prediction of an iron oxide concentration in the induction smelting process. Steel Research = Archiv FÃ¼r Das EisenhÃ¼ttenwesen, 1993, 64, 103-109.	0.3	1
56	Temperature Distribution in Microwave-Heated Iron Ore-Carbon Composites. Journal of Microwave Power and Electromagnetic Energy, 1990, 25, 75-80.	0.8	21
57	Development of a mathematical model for multihearth roasters. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 1989, 20, 925-935.	2.1	6