Tahar M Loulou

List of Publications by Year
in descending order

35	589	567281 15	642732 23
papers	citations	h-index	g-index

37	37	37	397
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Estimation of thermal contract resistance during the first stages of metal solidification process: Iâ€"experimental setup and results. International Journal of Heat and Mass Transfer, 1999, 42, 2129-2142.	4.8	82
2	Estimation of thermal contact resistance during the first stages of metal solidification process: Iâ€"experiment principle and modelisation. International Journal of Heat and Mass Transfer, 1999, 42, 2119-2127.	4.8	72
3	An inverse heat conduction problem with heat flux measurements. International Journal for Numerical Methods in Engineering, 2006, 67, 1587-1616.	2.8	45
4	THERMAL DOSE OPTIMIZATION IN HYPERTHERMIA TREATMENTS BY USING THE CONJUGATE GRADIENT METHOD. Numerical Heat Transfer; Part A: Applications, 2002, 42, 661-683.	2.1	38
5	Contact conditions on nugget development during resistance spot welding of Zn coated steel sheets using rounded tip electrodes. Journal of Materials Processing Technology, 2012, 212, 1663-1669.	6.3	35
6	The Accurate Determination of Heat Transfer Coefficient and its Evolution with Time During High Pressure Die Casting of Alâ€9â€‰%Siâ€3â€‰%Cu and Mgâ€9â€‰%Alâ€1â€‰%Zn Alloys. Advanced Engineering Materials, 2007, 9, 995-999.	3.1	35
7	Estimation of concentration-dependent diffusion coefficient in drying process from the space-averaged concentration versus time with experimental data. Chemical Engineering Science, 2006, 61, 7185-7198.	3.8	23
8	A Comparative Study of Heat Flux and Temperature Based Objective Functional to Solve Inverse Heat Conduction Problems. Numerical Heat Transfer, Part B: Fundamentals, 2009, 56, 75-104.	0.9	21
9	A numerical study for the estimation of a convection heat transfer coefficient during a metallurgical â€œJominy end-quenchâ€•test. International Journal of Thermal Sciences, 2002, 41, 517-527.	4.9	20
10	The interface temperature of two suddenly contacting bodies, one of them undergoing phase change. International Journal of Heat and Mass Transfer, 1997, 40, 1713-1716.	4.8	17
11	Analytical and numerical calculation of surface temperature and thermal constriction resistance in transient dynamic strip contact. Applied Thermal Engineering, 2011, 31, 1527-1535.	6.0	17
12	Estimations of a 2D convection heat transfer coefficient during a metallurgical â€œJominy end-quenchâ€• test: comparison between two methods and experimental validation. Inverse Problems in Science and Engineering, 2004, 12, 595-617.	1.2	16
13	Thermal Characterization of Resistance Spot Welding. Numerical Heat Transfer, Part B: Fundamentals, 2006, 49, 559-584.	0.9	15
14	Estimation of applied heat flux at the surface of ablating materials by using sequential function specification method. Journal of Mechanical Science and Technology, 2017, 31, 3969-3979.	1.5	15
15	Experimental Validation of an Inverse Heat Transfer Algorithm for Optimizing Hyperthermia Treatments. Journal of Biomechanical Engineering, 2006, 128, 505-515.	1.3	13
16	Determination of Reaction Parameters for Cardboard Thermal Degradation Using Experimental Data. Chemical Engineering Research and Design, 2003, 81, 1265-1270.	5.6	11
17	Estimation of 3-Dimensional heat flux from surface temperature measurements using an iterative regularization method. Heat and Mass Transfer, 2003, 39, 435-443.	2.1	11
18	Heat treatment of 34CrNiMo6 steel used for mooring shackles. International Journal of Advanced Manufacturing Technology, 2017, 91, 2329-2346.	3.0	10

#	Article	IF	Citations
19	Combined Parameter and Function Estimation With Application to Thermal Conductivity and Surface Heat Flux. Journal of Heat Transfer, 2007, 129, 1309-1320.	2.1	9
20	Approximation of heat and mass transport properties for one sided cake baking. Journal of Food Engineering, 2021, 290, 110211.	5.2	9
21	Optimal Choice of Descent Steps in Gradient-Type Methods When Applied to Combined Parameter and Function or Multi-Function Estimation. Inverse Problems in Science and Engineering, 2003, 11, 273-288.	1.2	9
22	Numerical solution of 3D unsteady nonlinear inverse problem of estimating surface heat flux for cylindrical geometry. Inverse Problems in Science and Engineering, 2006, 14, 39-52.	1.2	8
23	Estimation of local heat transfer coefficient on a cylinder: comparison between an analytical and an optimization method. Inverse Problems in Science and Engineering, 2005, 13, 449-467.	1.2	7
24	Estimating thermal properties of phase change material from heat flux measurements. International Journal of Thermal Sciences, 2022, 172, 107307.	4.9	7
25	Computing sensitivity coefficients by using complex differentiation: Application to heat conduction problem. Numerical Heat Transfer, Part B: Fundamentals, 2018, 74, 729-745.	0.9	5
26	Optimal Heat Input for Estimating Luikov's Parameters in a Heat and Mass Transfer Problem. Numerical Heat Transfer, Part B: Fundamentals, 2011, 60, 399-423.	0.9	4
27	Boundary Condition Estimation of Ablating Material Using Modified Sequential Function Specification Method. Journal of Thermophysics and Heat Transfer, 2018, 32, 514-524.	1.6	4
28	Luikovâ€™s Analytical Solution with Complex Eigenvalues in Intensive Drying. Transport in Porous Media, 2019, 130, 923-946.	2.6	3
29	Selection of better mathematical model describing cake baking for inverse analysis. Food and Bioproducts Processing, 2021, 126, 265-281.	3.6	3
30	Optimal Control of Thermal Damage to Targetted Regions in a Biological Material. , 2004, , 733.		2
31	Estimation of a source term in a quasi steady two-dimensional heat transfer problem: application to an electron beam welding. Frontiers of Materials Science, 2011, 5, 126-134.	2.2	2
32	Estimation of the Thermal Properties and Interface Conditions of Heterogeneous Materials. , 2002, , 201.		1
33	Fast Identification Method of Total Normal Surface Absorptances Using Inverse Techniques. Heat Transfer Engineering, 2014, 35, 1201-1208.	1.9	1
34	A new approach to speed up the conjugate gradient method by applying the complex variable differentiation method. Inverse Problems in Science and Engineering, 2019, 27, 1703-1717.	1.2	1
35	Multi-Parameter Estimation in Hyperthermia Problem by Using an Optimal Choice of Descent Parameters in Iterative Methods. , 2002, , 29.		0