

Hafedh Belmabrouk

List of Publications by Year in descending order

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153
papers

2,863
citations

201385

27
h-index

243296

44
g-index

157
all docs

157
docs citations

157
times ranked

1945
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Numerical Analysis of Entropy Generation Inside the Diesel Injector. Lecture Notes in Mechanical Engineering, 2022, , 83-92. | 0.3 | 0 |
| 2 | Experimental-structural study, Raman spectroscopy, UV-Visible, and impedance characterizations of Ba _{0.97} La _{0.02} Ti _{0.9} Nb _{0.08} O ₃ polycrystalline sample. Journal of Molecular Structure, 2022, 1249, 131539. | 1.8 | 18 |
| 3 | Adsorption of methylene blue from aqueous solution on activated carbons and composite prepared from an agricultural waste biomass: A comparative study by experimental and advanced modeling analysis. Chemical Engineering Journal, 2022, 430, 132801. | 6.6 | 181 |
| 4 | An investigation of the temperature- and frequency- dependent conductivity behavior and electrical properties of Ba _{0.97} La _{0.02} Ti _{0.9} Nb _{0.08} O ₃ compound using impedance spectroscopy. Journal of Molecular Structure, 2022, 1254, 132238. | 1.8 | 16 |
| 5 | Diffuse Phase Transition and Dielectric Tunability of Ba _{0.97} La _{0.02} TiO ₃ Relaxor Ferroelectric Ceramic. Journal of Inorganic and Organometallic Polymers and Materials, 2022, 32, 1334. | 1.9 | 10 |
| 6 | Nanoarchitectonics of Niobium-Doped, Lead-Free BLT (Ba _{0.97} La _{0.02} Ti _{0.98} Nb _{0.016} O ₃) for Electrical Properties with Unusual d.c Bias Voltage Independence. Journal of Inorganic and Organometallic Polymers and Materials, 2022, 32, 1681-1694. | 1.9 | 5 |
| 7 | Experimental and theoretical study of methylene blue biosorption using a new biomaterial Pergularia tomentosa L. fruit. International Journal of Environmental Science and Technology, 2022, 19, 12039-12056. | 1.8 | 8 |
| 8 | Effects of target temperature on thermal damage during temperature-controlled MWA of liver tumor. Case Studies in Thermal Engineering, 2022, 31, 101821. | 2.8 | 8 |
| 9 | 3D simulation of microfluidic biosensor for SARS-CoV-2 S protein binding kinetics using new reaction surface design. European Physical Journal Plus, 2022, 137, 241. | 1.2 | 14 |
| 10 | Molten Salt Flux Synthesis, Structure determination, Optical, Impedance and Modulus Spectroscopy Characterization of perovskite compound. Journal of Molecular Structure, 2022, 1260, 132788. | 1.8 | 9 |
| 11 | Design parameters optimization of an electrothermal flow biosensor for the SARS-CoV-2 S protein immunoassay. Indian Journal of Physics, 2022, 96, 4091-4101. | 0.9 | 11 |
| 12 | Impedance analysis and modulus behavior of Ca _{0.85} Er _{0.1} Ti _(1-x) Co _{4x/3} O ₃ (x=0.15 and 0.20) ceramic prepared by sol-gel reaction. Applied Physics A: Materials Science and Processing, 2022, 128, . | 1.1 | 10 |
| 13 | Modeling of heat transfer distribution in tumor breast cancer during microwave ablation therapy. Microwave and Optical Technology Letters, 2022, 64, 1364-1375. | 0.9 | 3 |
| 14 | Sensitive Detection of SARS-CoV-2 Using a Novel Plasmonic Fiber Optic Biosensor Design. Plasmonics, 2022, 17, 1489-1500. | 1.8 | 15 |
| 15 | Effect of the substitution of titanium by niobium on the structural, electric and modulus properties in Ba _{0.97} La _{0.02} Ti _(1-x) Nb _{4x/5} O ₃ perovskites. Journal of Molecular Structure, 2022, 1264, 133273. | 1.8 | 4 |
| 16 | Cationic dye removal using Pergularia tomentosa L. fruit: kinetics and isotherm characteristics using classical and advanced models. Comptes Rendus Chimie, 2022, 25, 61-79. | 0.2 | 3 |
| 17 | Nanoarchitectonics of Lead-Free Ba _{0.97} La _{0.02} Ti _(1-x) Nb _{4x/5} O ₃ Based Ceramic with Dielectrical and Raman Scattering Properties Studies. Journal of Inorganic and Organometallic Polymers and Materials, 2022, 32, 3708-3724. | 1.9 | 5 |
| 18 | Effect of Ti Substitution on the Structural, Optical Spectroscopy, Dielectric and Optical Conductivity Properties of La _{0.67} Ba _{0.25} Ca _{0.08} Mn _{1-x} Ti _x O ₃ (x=0 or 0.05) Manganite Ceramic. Journal of Inorganic and Organometallic Polymers and Materials, 2022, 32, 3889-3901. | 1.9 | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Nanoarchitectonics of Ba _{0.97} La _{0.02} Ti _{1-x} Nb _{4x/5} O ₃ (x = 0.00 and 0.10) polycrystalline compounds with electrical and optical properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 18544-18555. | 1.1 | 1 |
| 20 | Structural and morphological studies, and temperature/frequency dependence of electrical conductivity of Ba _{0.97} La _{0.02} Ti _{1-x} Nb _{4x/5} O ₃ perovskite ceramics. <i>RSC Advances</i> , 2021, 11, 23664-23678. | 1.7 | 53 |
| 21 | Colossal permittivity, impedance analysis, and optical properties in La _{0.67} Ba _{0.25} Ca _{0.08} Mn _{0.90} Ti _{0.10} O ₃ manganite. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 6520-6537. | 1.1 | 5 |
| 22 | 2-D-Nonlinear Electrothermal Model for Investigating the Self-Heating Effect in GAAFET Transistors. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 954-961. | 1.6 | 16 |
| 23 | Analysis of Temperature-Jump Boundary Conditions on Heat Transfer for Heterogeneous Microfluidic Immunosensors. <i>Sensors</i> , 2021, 21, 3502. | 2.1 | 12 |
| 24 | Enhancement of Heterogeneous Microfluidic Immunosensors Using New Sensing Area Shape with Electrothermal Effect. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4566. | 1.3 | 14 |
| 25 | Low-field magnetocaloric effect in La _{0.75} Ca _{0.25} Na _x MnO ₃ (0 ≤ x ≤ 0.10) perovskite. <i>Phase Transitions</i> , 2021, 94, 281-288. | 0.6 | 2 |
| 26 | The magnetic field effect on the improvement of the binding reaction of C-reactive protein at the microfluidic channel surface of an SPR biosensor. <i>European Physical Journal Plus</i> , 2021, 136, 1. | 1.2 | 6 |
| 27 | Hopping conduction mechanism and impedance spectroscopy analyses of La _{0.70} Sr _{0.25} Na _{0.05} Mn _{0.70} Ti _{0.30} O ₃ ceramic. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 16113-16125. | 1.1 | 11 |
| 28 | Influence of Joule effect on thermal response of nano FinFET transistors. <i>Superlattices and Microstructures</i> , 2021, 156, 106980. | 1.4 | 3 |
| 29 | Structural, double Jonscher response and Non-Debye-type relaxor behavior of Ba _{0.75} Sr _{0.25} Ti _{0.9} Zn _{0.2} O ₃ ceramic. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 23333-23348. | 1.1 | 5 |
| 30 | Enhancement of COVID-19 detection time by means of electrothermal force. <i>Microfluidics and Nanofluidics</i> , 2021, 25, 86. | 1.0 | 18 |
| 31 | EKG compression with Douglas-Peucker algorithm and fractal interpolation. <i>Mathematical Biosciences and Engineering</i> , 2021, 18, 3502-3520. | 1.0 | 3 |
| 32 | Adsorption of dyes brilliant blue, sunset yellow and tartrazine from aqueous solution on chitosan: Analytical interpretation via multilayer statistical physics model. <i>Chemical Engineering Journal</i> , 2020, 382, 122952. | 6.6 | 123 |
| 33 | Statistical physics modeling and interpretation of the adsorption of dye remazol black B on natural and carbonized biomasses. <i>Journal of Molecular Liquids</i> , 2020, 299, 112099. | 2.3 | 27 |
| 34 | Adsorption of acid green and procion red on a magnetic geopolymer based adsorbent: Experiments, characterization and theoretical treatment. <i>Chemical Engineering Journal</i> , 2020, 383, 123113. | 6.6 | 61 |
| 35 | Modeling the simultaneous effects of thermal and polarization in InGaN/GaN based high electron mobility transistors. <i>Optik</i> , 2020, 207, 163883. | 1.4 | 11 |
| 36 | Preparation and characterization of a novel mountain soursop seeds powder adsorbent and its application for the removal of crystal violet and methylene blue from aqueous solutions. <i>Chemical Engineering Journal</i> , 2020, 391, 123617. | 6.6 | 70 |

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|----|--|-----|-----------|
| 37 | Study of structural, conduction mechanism and dielectric behavior of La _{0.7} Sr _{0.3} Mn _{0.8} Fe _{0.2} O ₃ manganite. Journal of Materials Science: Materials in Electronics, 2020, 31, 21732-21746. | 1.1 | 16 |
| 38 | Raman spectra, photoluminescence, and low-frequency dielectric properties of Ba _{0.97} La _{0.02} Ti _{1-x} Nb _{4x/5} O ₃ (x=0.00, 0.05) ceramics at room temperature. Journal of Materials Science: Materials in Electronics, 2020, 31, 15296-15307. | 1.1 | 18 |
| 39 | A microscopic and macroscopic investigation of the adsorption of N719 dye on ZnO nanopowders (ZNP) and ZnO nanorods (ZNR) for dye sensitized solar cells using statistical physics treatment and DFT simulation. RSC Advances, 2020, 10, 27615-27632. | 1.7 | 12 |
| 40 | Influence of Sr substitution on structural, magnetic and magnetocaloric properties in La _{0.67} Ca _{0.33-x} Sr _x Mn _{0.98} Ni _{0.02} O ₃ manganites. Journal of Materials Science: Materials in Electronics, 2020, 31, 15322-15335. | 1.1 | 15 |
| 41 | Impact of High-k Gate Dielectric on Self-Heating Effects in PiFETs Structure. IEEE Transactions on Electron Devices, 2020, 67, 3522-3529. | 1.6 | 14 |
| 42 | Reconstruction of Three-Dimensional Blood Vessel Model Using Fractal Interpolation. , 2020, , . | | 0 |
| 43 | Frequency and thermal studies of dielectric permittivity and Raman analysis of Ba _{0.97} La _{0.02} Ti _{0.98} Nb _{0.016} O ₃ . Journal of Materials Science: Materials in Electronics, 2020, 31, 22323-22339. | 1.1 | 10 |
| 44 | Design optimization of nanoscale electrothermal transport in 10 nm SOI FinFET technology node. Journal Physics D: Applied Physics, 2020, 53, 495103. | 1.3 | 12 |
| 45 | Simulation of the Slip Velocity Effect in an AC Electrothermal Micropump. Micromachines, 2020, 11, 825. | 1.4 | 8 |
| 46 | Three-dimensional Heisenberg critical phenomena in La _{0.6} Bi _{0.15} Sr _{0.3-x} CaxMn _{0.9} Cu _{0.1} O ₃ manganites (x=0 and 0.05). Journal of Materials Science: Materials in Electronics, 2020, 31, 18186-18197. | 1.1 | 1 |
| 47 | Thermal characteristics of air-water two-phase flow in a vertical annularly corrugated tube. Journal of Energy Storage, 2020, 31, 101605. | 3.9 | 19 |
| 48 | Internal polarization electric field effects on the efficiency of InN/In _x Ga _{1-x} N multiple quantum dot solar cells. Solar Energy, 2020, 201, 339-347. | 2.9 | 16 |
| 49 | Raman scattering and red emission of Mn ⁴⁺ in La _{0.7} Sr _{0.25} Na _{0.05} Mn _{0.7} Ti _{0.3} O ₃ manganite phosphor for LED applications. RSC Advances, 2020, 10, 23615-23623. | 1.7 | 13 |
| 50 | Adsorption of hazardous dyes on functionalized multiwalled carbon nanotubes in single and binary systems: Experimental study and physicochemical interpretation of the adsorption mechanism. Chemical Engineering Journal, 2020, 389, 124467. | 6.6 | 125 |
| 51 | Study of conduction mechanism, electrical property, and nonlinear electrical behaviors of Ba _{0.97} Bi _{0.02} Ti _{0.92} Zr _{0.05} Nb _{0.04} O ₃ perovskite. Journal of Materials Science: Materials in Electronics, 2020, 31, 4836-4849. | 1.1 | 15 |
| 52 | Interfacial heat transport across multilayer nanofilms in ballistic-diffusive regime. European Physical Journal Plus, 2020, 135, 1. | 1.2 | 26 |
| 53 | Numerical Analysis of Human Cancer Therapy Using Microwave Ablation. Applied Sciences (Switzerland), 2020, 10, 211. | 1.3 | 29 |
| 54 | Theoretical study of indigotine blue dye adsorption on CoFe ₂ O ₄ /chitosan magnetic composite via analytical model. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 589, 124467. | 2.3 | 28 |

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|----|---|-----|-----------|
| 55 | Experimental and numerical study of the isotherms and determination of physicochemical parameters of the hydrogen absorption/desorption process by the metal hydrides. International Journal of Hydrogen Energy, 2020, 45, 15281-15293. | 3.8 | 10 |
| 56 | Insights of the adsorption mechanism of methylene blue on brazilian berries seeds: Experiments, phenomenological modelling and DFT calculations. Chemical Engineering Journal, 2020, 394, 125011. | 6.6 | 60 |
| 57 | AC Electroosmosis Effect on Microfluidic Heterogeneous Immunoassay Efficiency. Micromachines, 2020, 11, 342. | 1.4 | 13 |
| 58 | Improvement of Mass Transport at the Surface of an SPR Biosensor Applied in Microfluidics. Lecture Notes in Mechanical Engineering, 2020, , 145-154. | 0.3 | 0 |
| 59 | Effect of oblateness and viscous force in the Robe's circular restricted three-body problem. New Astronomy, 2019, 73, 101280. | 0.8 | 13 |
| 60 | Adsorption of crystal violet on biomasses from pecan nutshell, para chestnut husk, araucaria bark and palm cactus: Experimental study and theoretical modeling via monolayer and double layer statistical physics models. Chemical Engineering Journal, 2019, 378, 122101. | 6.6 | 148 |
| 61 | Performance enhancement of a multi-effect desalination plant: A thermodynamic investigation. Physica A: Statistical Mechanics and Its Applications, 2019, 535, 122535. | 1.2 | 3 |
| 62 | Modeling the impact of temperature effect and polarization phenomenon on InGaN/GaN-Multi-quantum well solar cells. Optik, 2019, 199, 163385. | 1.4 | 9 |
| 63 | Adsorption of indium (III) from aqueous solution on raw, ultrasound- and supercritical-modified chitin: Experimental and theoretical analysis. Chemical Engineering Journal, 2019, 373, 1247-1253. | 6.6 | 43 |
| 64 | Perturbed Robe's CR3BP with viscous force. Astrophysics and Space Science, 2019, 364, 1. | 0.5 | 12 |
| 65 | Performance enhancement of a copper-based optical fiber SPR sensor by the addition of an oxide layer. Optik, 2019, 190, 1-9. | 1.4 | 24 |
| 66 | Study of mean-field theory on the magnetocaloric effect of La _{0.7} Bi _{0.05} Sr _{0.15} Ca _{0.1} Mn _{0.85} In _{0.15} O ₃ manganite. Applied Physics A: Materials Science and Processing, 2019, 125, 1. | 1.1 | 8 |
| 67 | Numerical Modeling of the Electronic and Electrical Characteristics of InGaN/GaN-MQW Solar Cells. Materials, 2019, 12, 1241. | 1.3 | 9 |
| 68 | Interpretation of the adsorption mechanism of Reactive Black 5 and Ponceau 4R dyes on chitosan/polyamide nanofibers via advanced statistical physics model. Journal of Molecular Liquids, 2019, 285, 165-170. | 2.3 | 121 |
| 69 | Numerical modeling of InGaN/GaN p-i-n solar cells under temperature and hydrostatic pressure effects. AIP Advances, 2019, 9, . | 0.6 | 13 |
| 70 | Effect of titanium substitution on the structural, magnetic and magnetocaloric properties of La _{0.67} Ba _{0.25} Ca _{0.08} MnO ₃ perovskite manganites. Applied Physics A: Materials Science and Processing, 2019, 125, 1. | 1.1 | 8 |
| 71 | Influence of non-magnetic ion In ³⁺ on the magneto-transport properties in La _{0.7} Bi _{0.05} Sr _{0.15} Ca _{0.1} Mn _{1-x} In _x O ₃ (0 ≤ x ≤ 0.3) perovskite. Solid State Communications, 2019, 294, 16-22. ^{0,9} | | 17 |
| 72 | MHD Flow and Heat Transfer over Vertical Stretching Sheet with Heat Sink or Source Effect. Symmetry, 2019, 11, 297. | 1.1 | 58 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Numerical Study of the Blood Flow in a Deformable Human Aorta. Applied Sciences (Switzerland), 2019, 9, 1216. | 1.3 | 15 |
| 74 | Thermal transport in graphene field-effect transistors with ultrashort channel length. Superlattices and Microstructures, 2019, 128, 265-273. | 1.4 | 27 |
| 75 | Electro-thermal modeling for In _x Ga _{1-x} N/GaN based quantum well heterostructures. Materials Science in Semiconductor Processing, 2019, 93, 231-237. | 1.9 | 20 |
| 76 | The LOTUS: A Journey to Value-Based, Patient-Centered Care. Creative Nursing, 2019, 25, 17-24. | 0.2 | 0 |
| 77 | Modeling Thermal Performance of Nano-GNRFET Transistors Using Ballistic-Diffusive Equation. IEEE Transactions on Electron Devices, 2018, 65, 1611-1616. | 1.6 | 34 |
| 78 | Noise-estimation-based anisotropic diffusion approach for retinal blood vessel segmentation. Neural Computing and Applications, 2018, 29, 159-180. | 3.2 | 17 |
| 79 | Estimating spontaneous magnetization from mean field analysis and critical exponents study in La _{0.6} Sr _{0.4} Mn _{0.9} Al _{0.1} O ₃ compound. Journal of Magnetism and Magnetic Materials, 2018, 460, 480-488. | 1.0 | 10 |
| 80 | Enhancing Efficiency of InGaN Nanowire Solar Cells by Applying Stress. Lecture Notes in Mechanical Engineering, 2018, , 1-9. | 0.3 | 1 |
| 81 | 3D Numerical Simulation of Binding Efficiency of Immunoassay for a Biosensor with Involving a Cylinder. Sensor Letters, 2018, 16, 498-505. | 0.4 | 2 |
| 82 | Theoretical evaluation of a fiber-optic SPR biosensor based on a gold layer treated with thiol acid. EPJ Applied Physics, 2018, 82, 31201. | 0.3 | 10 |
| 83 | Investigation of heat transport across Ge/Si interface using an enhanced ballistic-diffusive model. Superlattices and Microstructures, 2018, 124, 218-230. | 1.4 | 19 |
| 84 | Investigation of Dual-Phase-Lag Model with Robin Boundary Condition in Metal-Oxide-Semiconductor-Field-Effect Transistor. Journal of Computational and Theoretical Nanoscience, 2018, 15, 3114-3117. | 0.4 | 1 |
| 85 | Nonlinear Electrothermal Model for Investigation of Heat Transfer Process in a 22-nm FD-SOI MOSFET. IEEE Transactions on Electron Devices, 2017, 64, 1461-1466. | 1.6 | 25 |
| 86 | How do packing defects modify the cooperative motions in supercooled liquids?. Chemical Physics, 2017, 490, 55-61. | 0.9 | 2 |
| 87 | Electromagnetically Induced Transparency in a Group III-V Nano-well for Terahertz Applications. Springer Proceedings in Physics, 2017, , 329-334. | 0.1 | 0 |
| 88 | Nanoheat Conduction Performance of Black Phosphorus Field-Effect Transistor. IEEE Transactions on Electron Devices, 2017, 64, 2765-2769. | 1.6 | 14 |
| 89 | Effect of Temperature Jump on Nonequilibrium Entropy Generation in a MOSFET Transistor Using Dual-Phase-Lagging Model. Journal of Heat Transfer, 2017, 139, . | 1.2 | 14 |
| 90 | Graphene Effect on the Improvement of the Response of Optical Fiber SPR Sensor. IEEE Sensors Journal, 2017, 17, 7440-7447. | 2.4 | 25 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 91 | Magnetic, magnetocaloric and critical behavior investigation of $\text{La}_{0.7}\text{Ca}_{0.1}\text{Pb}_{0.2}\text{Mn}_{1-x}\text{Al}_x\text{Sn}_y\text{O}_{3-z}$ ($x, y = 0.0, 0.05$ and 0.075) prepared by a sol-gel method. RSC Advances, 2017, 7, 43410-43423. | | 13 |
| 92 | Large magnetocaloric effect and critical behavior in $\text{La}_{0.7}\text{Ba}_{0.2}\text{Ca}_{0.1}\text{Mn}_{1-x}\text{Al}_x\text{O}_3$. RSC Advances, 2017, 7, 43590-43599. | 1.7 | 17 |
| 93 | New insights into the 6H-type hexagonal perovskite solid solution BaTiO_3 : Influence of acceptor and donor doping on crystal structure and electrical properties. Solid State Ionics, 2017, 310, 154-165. | 1.3 | 5 |
| 94 | Optimization of microfluidic biosensor efficiency by means of fluid flow engineering. Scientific Reports, 2017, 7, 5721. | 1.6 | 31 |
| 95 | Structural, electric and dielectric properties of $\text{Ca}_{0.85}\text{Er}_{0.1}\text{Ti}_{1-x}\text{Co}_{4x/3}\text{O}_3$ ($0 \leq x \leq 0.1$). Applied Physics A: Materials Science and Processing, 2017, 123, 1. | 1.1 | 28 |
| 96 | Relaxor ceramic with a high relative permittivity and low dielectric loss in Cr doped $\text{Ca}_{0.67}\text{La}_{0.22}\text{TiO}_3$. Journal of Alloys and Compounds, 2017, 726, 378-387. | 2.8 | 1 |
| 97 | Numerical modeling of surface plasmon resonance response of fiber optic sensors. , 2017, , . | | 1 |
| 98 | Multidimensional Nano Heat Conduction in Cylindrical Transistors. IEEE Transactions on Electron Devices, 2017, 64, 5236-5241. | 1.6 | 20 |
| 99 | Novel Computerized Method for Measurement of Retinal Vessel Diameters. Biomedicines, 2017, 5, 12. | 1.4 | 10 |
| 100 | Modelization using the B-spline method of blood vessel curve for the human retina. , 2017, , . | | 0 |
| 101 | Comparison with One-Site and Two Site Binding Model for Microsensor. Sensor Letters, 2017, 15, 364-370. | 0.4 | 0 |
| 102 | Finite-Element Simulations of the pH-ElecFET Microsensors. IEEE Sensors Journal, 2016, 16, 6519-6526. | 2.4 | 5 |
| 103 | Enhancement of the Analyte Mass Transport in a Microfluidic Biosensor by Deformation of Fluid Flow and Electrothermal Force. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2016, 138, . | 1.3 | 17 |
| 104 | Electrothermal effect on the immunoassay in a microchannel of a biosensor with asymmetrical interdigitated electrodes. Applied Thermal Engineering, 2016, 105, 77-84. | 3.0 | 27 |
| 105 | Numerical Study of the Electrothermal Effect on the Kinetic Reaction of Immunoassays for a Microfluidic Biosensor. Langmuir, 2016, 32, 13305-13312. | 1.6 | 19 |
| 106 | Self-consistent vertical transport calculations in $\text{Al}_x\text{Ga}_{1-x}\text{N}/\text{GaN}$ based resonant tunneling diode. Superlattices and Microstructures, 2016, 91, 37-50. | 1.4 | 13 |
| 107 | Adsorption of ethanol onto activated carbon: Modeling and consequent interpretations based on statistical physics treatment. Physica A: Statistical Mechanics and Its Applications, 2016, 444, 853-869. | 1.2 | 44 |
| 108 | Adaptive noise-reducing anisotropic diffusion filter. Neural Computing and Applications, 2016, 27, 1273-1300. | 3.2 | 33 |

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|-----|---|-----|-----------|
| 109 | Analysis of Microfluidic Biosensor Efficiency Using a Cylindrical Obstacle. <i>Sensor Letters</i> , 2016, 14, 26-31. | 0.4 | 15 |
| 110 | Complex Permeability Measurements in a Nanocrystalline Toroidal Core. <i>Journal of Modern Materials</i> , 2016, 1, 2-8. | 0.8 | 2 |
| 111 | Optical limiting efficiency of an electroactive bis-iminopyridine ligand and its zinc complex. <i>Photonics Letters of Poland</i> , 2016, 8, . | 0.2 | 0 |
| 112 | Numerical Study of Electro-Chemical System for Enzymatic Activities Detection. <i>Sensor Letters</i> , 2016, 14, 1079-1083. | 0.4 | 2 |
| 113 | Automatic Extraction of Blood Vessels in the Retinal Vascular Tree Using Multiscale Medialness. <i>International Journal of Biomedical Imaging</i> , 2015, 2015, 1-16. | 3.0 | 21 |
| 114 | Nonlinear optical characterization of tetraphenylporphyrin in the picosecond regime. , 2015, , . | | 5 |
| 115 | Performance evaluation of several anisotropic diffusion filters for fundus imaging. <i>International Journal of Intelligent Engineering Informatics</i> , 2015, 3, 66. | 0.1 | 4 |
| 116 | Three-Dimensional Reconstruction of Blood Vessels of the Human Retina by Fractal Interpolation. <i>Journal of Nanotechnology in Engineering and Medicine</i> , 2015, 6, 0310031-310035. | 0.8 | 6 |
| 117 | Investigation of Self-Heating Effects in a 10-nm SOI-MOSFET With an Insulator Region Using Electrothermal Modeling. <i>IEEE Transactions on Electron Devices</i> , 2015, 62, 2410-2415. | 1.6 | 29 |
| 118 | Modeling of polarization charge in N-face InGaN/GaN MQW solar cells. <i>Materials Science in Semiconductor Processing</i> , 2015, 40, 424-428. | 1.9 | 35 |
| 119 | Flow Confinement Enhancement of Heterogeneous Immunoassays in Microfluidics. <i>IEEE Sensors Journal</i> , 2015, 15, 7321-7328. | 2.4 | 33 |
| 120 | 3D thermal conduction in a nanoscale Tri-Gate MOSFET based on single-phase-lag model. <i>Applied Thermal Engineering</i> , 2015, 91, 647-653. | 3.0 | 30 |
| 121 | Effect of second-order temperature jump in Metal-Oxide-Semiconductor Field Effect Transistor with Dual-Phase-Lag model. <i>Microelectronics Journal</i> , 2015, 46, 67-74. | 1.1 | 25 |
| 122 | Microscale thermal conduction based on Cattaneo-Vernotte model in silicon on insulator and Double Gate MOSFETs. <i>Applied Thermal Engineering</i> , 2015, 76, 206-211. | 3.0 | 26 |
| 123 | 3D Model Reconstruction of Blood Vessels in The Retina with Tubular Structure. <i>International Journal on Electrical Engineering and Informatics</i> , 2015, 7, 724-734. | 0.3 | 7 |
| 124 | A new approach for generating compact thermal models. , 2014, , . | | 1 |
| 125 | Classification of quantum authentication protocols and calculation of their complexity. , 2014, , . | | 7 |
| 126 | Third order nonlinear optical properties of oligophenylene dyads by open-aperture Z-scan technique. <i>Optical and Quantum Electronics</i> , 2014, 46, 7-13. | 1.5 | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 127 | Effect of metal cation complexation on the nonlinear optical response of an electroactive bisiminopyridine ligand. <i>Dyes and Pigments</i> , 2014, 101, 229-233. | 2.0 | 85 |
| 128 | Local entropy generation in co-flowing turbulent jets with variable density. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2014, 24, 1679-1695. | 1.6 | 17 |
| 129 | Directed co-flow effects on local entropy generation in turbulent heated round jets. <i>Computers and Fluids</i> , 2014, 105, 285-293. | 1.3 | 12 |
| 130 | Numerical investigation of microfluidic flow under AC applied electric field: Enhanced of binding reaction for a biosensor. , 2014, , . | | 0 |
| 131 | Effects of a magnetic field environment on quantum cloning of qubits. <i>Quantum Information Processing</i> , 2013, 12, 945-954. | 1.0 | 0 |
| 132 | Structural and dielectric properties of Ba _{0.8} La _{0.133} Ti _{0.90} Sn _{0.1} O ₃ . <i>Solid State Communications</i> , 2012, 152, 1874-1879. | 0.9 | 31 |
| 133 | Effect of Al substitution on magnetocaloric effect in La _{0.57} Nd _{0.1} Sr _{0.33} Mn _{1-x} Al _x O ₃ (0.0 ≤ x ≤ 0.30) polycrystalline near room temperature. <i>Journal of Alloys and Compounds</i> , 2012, 518, 32-37. | 2.8 | 27 |
| 134 | The relative entropy as a tool to analyze the intrusion based on Bužek-Hillery machine. , 2011, , . | | 0 |
| 135 | Numerical simulation of wall roughness effects in cavitating flow. <i>International Journal of Heat and Fluid Flow</i> , 2011, 32, 1068-1075. | 1.1 | 39 |
| 136 | Computation of Cavitating Flows in a Diesel Injector. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010, 13, 012035. | 0.3 | 3 |
| 137 | Effect of Co substitution on magnetocaloric effect in La _{0.67} Pb _{0.33} Mn _{1-x} CoxO ₃ (0.15 ≤ x ≤ 0.3). <i>Journal of Alloys and Compounds</i> , 2010, 507, 405-409. | 2.8 | 44 |
| 138 | Band offset calculations of Zn _{Sx} Se _{1-x} /Zn _{Sy} Se _{1-y} heterostructures. <i>Thin Solid Films</i> , 2008, 516, 1608-1612. | 0.8 | 4 |
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