

Koel Chaudhury

List of Publications by Year in descending order

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Version: 2024-02-01

110
papers

3,031
citations

147726

31
h-index

206029

48
g-index

112
all docs

112
docs citations

112
times ranked

4501
citing authors

#	ARTICLE	IF	CITATIONS
1	A photonic dual nano-hybrid assay for detection of cell-free circulating mitochondrial DNA. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2022, 208, 114441.	1.4	6
2	Immunological profiling and development of a sensing device for detection of IL-13 in COPD and asthma. <i>Bioelectrochemistry</i> , 2022, 143, 107971.	2.4	5
3	Therapeutic potential of curcumin in endometrial disorders: Current status and future perspectives. <i>Drug Discovery Today</i> , 2022, 27, 900-911.	3.2	4
4	NMR metabolomic and microarray-based transcriptomic data integration identifies unique molecular signatures of hypersensitivity pneumonitis. <i>Molecular Omics</i> , 2022, 18, 101-111.	1.4	7
5	Nanoencapsulation as a Promising Platform for the Delivery of the Morin-Cu(II) Complex: Antibacterial and Anticancer Potential. <i>ACS Omega</i> , 2022, 7, 7931-7944.	1.6	11
6	Integrated mitoeigenetic signalling mechanisms associated with airborne particulate matter exposure: A cross-sectional pilot study. <i>Atmospheric Pollution Research</i> , 2022, 13, 101399.	1.8	11
7	Risk factors associated with mortality in hypersensitivity pneumonitis: a meta-analysis. <i>Expert Review of Respiratory Medicine</i> , 2022, 16, 801-811.	1.0	4
8	Polyaniline Functionalized Impedimetric Paper Sensor for Urine pH Measurement. <i>IEEE Sensors Journal</i> , 2021, 21, 14474-14482.	2.4	4
9	Immuno-cytometric detection of circulating cell free methylated DNA, post-translationally modified histones and micro RNAs using semi-conducting nanocrystals. <i>Talanta</i> , 2021, 222, 121516.	2.9	11
10	Proteomics in idiopathic pulmonary fibrosis: the quest for biomarkers. <i>Molecular Omics</i> , 2021, 17, 43-58.	1.4	11
11	Comparative profiling of epigenetic modifications among individuals living in different high and low air pollution zones: A pilot study from India. <i>Environmental Advances</i> , 2021, 4, 100052.	2.2	11
12	Proprotein convertase subtilisin/kexin type 9 (PCSK9): A potential multifaceted player in cancer. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2021, 1876, 188581.	3.3	29
13	Global metabolome profiling of exhaled breath condensates in male smokers with asthma COPD overlap and prediction of the disease. <i>Scientific Reports</i> , 2021, 11, 16664.	1.6	13
14	Air pollution-induced epigenetic changes: disease development and a possible link with hypersensitivity pneumonitis. <i>Environmental Science and Pollution Research</i> , 2021, 28, 55981-56002.	2.7	24
15	Hand-drawn electrode based disposable paper chip for artificial sweat analysis using impedance spectroscopy. <i>Biomedical Microdevices</i> , 2021, 23, 42.	1.4	10
16	Identification of novel metabolic signatures potentially involved in the pathogenesis of COPD associated pulmonary hypertension. <i>Metabolomics</i> , 2021, 17, 94.	1.4	4
17	Impact of long-term doxycycline on lung function & exacerbations: A real-world open, prospective pilot observation on chronic obstructive pulmonary disease. <i>Indian Journal of Medical Research</i> , 2021, 153, 465-474.	0.4	0
18	Mapping the Mitochondrial Regulation of Epigenetic Modifications in Association With Carcinogenic and Noncarcinogenic Polycyclic Aromatic Hydrocarbon Exposure. <i>International Journal of Toxicology</i> , 2020, 39, 465-476.	0.6	22

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19	Enzyme mediated resistant starch production from Indian Fox Nut (<i>Euryale ferox</i>) and studies on digestibility and functional properties. <i>Carbohydrate Polymers</i> , 2020, 237, 116158.	5.1	32
20	Bioinspired 3D porous human placental derived extracellular matrix/silk fibroin sponges for accelerated bone regeneration. <i>Materials Science and Engineering C</i> , 2020, 113, 110990.	3.8	20
21	Metabolomic fingerprinting and systemic inflammatory profiling of asthma COPD overlap (ACO). <i>Respiratory Research</i> , 2020, 21, 126.	1.4	36
22	Cytokines, Angiogenesis, and Extracellular Matrix Degradation are Augmented by Oxidative Stress in Endometriosis. <i>Annals of Laboratory Medicine</i> , 2020, 40, 390-397.	1.2	39
23	Effect of doxycycline in chronic obstructive pulmonary disease - An exploratory study. <i>Pulmonary Pharmacology and Therapeutics</i> , 2019, 58, 101831.	1.1	14
24	Phytochemical composition, β -glucuronidase inhibition, and antioxidant properties of two fractions of <i>Piper betle</i> leaf aqueous extract. <i>Journal of Food Biochemistry</i> , 2019, 43, e13048.	1.2	15
25	Metabolomic signatures of asthma-COPD overlap (ACO) are different from asthma and COPD. <i>Metabolomics</i> , 2019, 15, 87.	1.4	26
26	Exposure to ultrafine particulate matter induces NF- κ B mediated epigenetic modifications. <i>Environmental Pollution</i> , 2019, 252, 39-50.	3.7	56
27	Disposable Hand Drawn Electrode Paper based Urea Sensor by Impedance Spectroscopy. , 2019, , .		2
28	Long term treatment of metformin impedes development of chemoresistance by regulating cancer stem cell differentiation through taurine generation in ovarian cancer cells. <i>International Journal of Biochemistry and Cell Biology</i> , 2019, 107, 116-127.	1.2	22
29	Air pollution associated epigenetic modifications: Transgenerational inheritance and underlying molecular mechanisms. <i>Science of the Total Environment</i> , 2019, 656, 760-777.	3.9	106
30	Silk Sponges Ornamented with a Placenta-Derived Extracellular Matrix Augment Full-Thickness Cutaneous Wound Healing by Stimulating Neovascularization and Cellular Migration. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 16977-16991.	4.0	57
31	Metabolomics reveals perturbations in endometrium and serum of minimal and mild endometriosis. <i>Scientific Reports</i> , 2018, 8, 6466.	1.6	46
32	A facile route to develop hydrophilicity on the polyolefin surface for biomedical applications. <i>Advances in Polymer Technology</i> , 2018, 37, 1410-1419.	0.8	1
33	Ultrafine particulate matter impairs mitochondrial redox homeostasis and activates phosphatidylinositol 3-kinase mediated DNA damage responses in lymphocytes. <i>Environmental Pollution</i> , 2018, 234, 406-419.	3.7	66
34	Epigenetic Biomarkers for Risk Assessment of Particulate Matter Associated Lung Cancer. <i>Current Drug Targets</i> , 2018, 19, 1127-1147.	1.0	28
35	Quantum Dot Based Nano-Biosensors for Detection of Circulating Cell Free miRNAs in Lung Carcinogenesis: From Biology to Clinical Translation. <i>Frontiers in Genetics</i> , 2018, 9, 616.	1.1	66
36	Fetal nucleic acids in maternal plasma from biology to clinical translation. <i>Frontiers in Bioscience - Landmark</i> , 2018, 23, 397-431.	3.0	9

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37	Metabolomics and chemometric study for identification of acetylcholinesterase inhibitor(s) from the flower extracts of <i>Nymphaea pubescens</i> . Journal of Food Biochemistry, 2018, 42, e12575.	1.2	12
38	Metabolomic alterations in invasive ductal carcinoma of breast: A comprehensive metabolomic study using tissue and serum samples. Oncotarget, 2018, 9, 2678-2696.	0.8	48
39	Multipronged quantitative proteomics reveals serum proteome alterations in breast cancer intrinsic subtypes. Journal of Proteomics, 2017, 163, 1-13.	1.2	18
40	Comprehensive quantitative lipidomic approach to investigate serum phospholipid alterations in breast cancer. Metabolomics, 2017, 13, 1.	1.4	8
41	Polycystic ovary syndrome in Indian women: a mass spectrometry based serum metabolomics approach. Metabolomics, 2017, 13, 1.	1.4	8
42	Mycobacterial heat shock protein 65 mediated metabolic shift in decidualization of human endometrial stromal cells. Scientific Reports, 2017, 7, 3942.	1.6	3
43	Metabolomic profiling of doxycycline treatment in chronic obstructive pulmonary disease. Journal of Pharmaceutical and Biomedical Analysis, 2017, 132, 103-108.	1.4	18
44	Cell-Free Circulating Epigenomic Signatures: Non-Invasive Biomarker for Cardiovascular and Other Age-Related Chronic Diseases. Current Pharmaceutical Design, 2017, 23, 1175-1187.	0.9	20
45	Urinary proteome alterations in HER2 enriched breast cancer revealed by multipronged quantitative proteomics. Proteomics, 2016, 16, 2403-2418.	1.3	45
46	Metabolomic and chemometric study of <i>Achras sapota</i> L. fruit extracts for identification of metabolites contributing to the inhibition of α -amylase and α -glucosidase. European Food Research and Technology, 2016, 242, 733-743.	1.6	27
47	Repeated implantation failure versus repeated implantation success: discrimination at a metabolomic level. Human Reproduction, 2016, 31, 1265-1274.	0.4	25
48	Intrafollicular interleukin-8, interleukin-12, and adrenomedullin are the promising prognostic markers of oocyte and embryo quality in women with endometriosis. Journal of Assisted Reproduction and Genetics, 2016, 33, 1363-1372.	1.2	86
49	Serum metabolomics of Indian women with polycystic ovary syndrome using ^1H NMR coupled with a pattern recognition approach. Molecular BioSystems, 2016, 12, 3407-3416.	2.9	34
50	Solubility enhancement of morin and epicatechin through encapsulation in an albumin based nanoparticulate system and their anticancer activity against the MDA-MB-468 breast cancer cell line. RSC Advances, 2016, 6, 101415-101429.	1.7	32
51	Identification of serum metabolic markers for diagnosis of women with dormant genital tuberculosis. Metabolomics, 2016, 12, 1.	1.4	2
52	Transcriptomics, proteomics and metabolomics driven biomarker discovery in COPD: an update. Expert Review of Molecular Diagnostics, 2016, 16, 897-913.	1.5	23
53	Metabolomics Reveals Altered Lipid Metabolism in a Mouse Model of Endometriosis. Journal of Proteome Research, 2016, 15, 2626-2633.	1.8	32
54	Preparation of albumin based nanoparticles for delivery of fisetin and evaluation of its cytotoxic activity. International Journal of Biological Macromolecules, 2016, 86, 408-417.	3.6	56

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55	Investigating the potential of human placenta-derived extracellular matrix sponges coupled with amniotic membrane-derived stem cells for osteochondral tissue engineering. <i>Journal of Materials Chemistry B</i> , 2016, 4, 613-625.	2.9	47
56	Quantitative tissue proteomic investigation of invasive ductal carcinoma of breast with luminal B HER2 positive and HER2 enriched subtypes towards potential diagnostic and therapeutic biomarkers. <i>Journal of Proteomics</i> , 2016, 132, 112-130.	1.2	25
57	Dysregulated leukemia inhibitory factor and its receptor regulated signal transducers and activators of transcription 3 pathway: a possible cause for repeated implantation failure in women with dormant genital tuberculosis?. <i>Fertility and Sterility</i> , 2016, 105, 1076-1084.e5.	0.5	27
58	Copper(II) directs formation of toxic amorphous aggregates resulting in inhibition of hen egg white lysozyme fibrillation under alkaline salt-mediated conditions. <i>Journal of Biomolecular Structure and Dynamics</i> , 2015, 33, 991-1007.	2.0	23
59	Mass spectrometry and bioinformatics analysis data. <i>Data in Brief</i> , 2015, 2, 21-25.	0.5	3
60	Proteomic-driven biomarker discovery in gestational diabetes mellitus: A review. <i>Journal of Proteomics</i> , 2015, 127, 44-49.	1.2	16
61	Metabolomics and its integration with systems biology: PSI 2014 conference panel discussion report. <i>Journal of Proteomics</i> , 2015, 127, 73-79.	1.2	20
62	Nanoparticle-Assisted Combinatorial Therapy for Effective Treatment of Endometriosis. <i>Journal of Biomedical Nanotechnology</i> , 2015, 11, 789-804.	0.5	25
63	Investigation of serum proteome alterations in human endometriosis. <i>Journal of Proteomics</i> , 2015, 114, 182-196.	1.2	36
64	Rotational Dynamics of Optically Trapped Human Spermatozoa. <i>Scientific World Journal</i> , The, 2014, 2014, 1-7.	0.8	7
65	Regenerative nanomedicine: current perspectives and future directions. <i>International Journal of Nanomedicine</i> , 2014, 9, 4153.	3.3	59
66	An emerging interface between life science and nanotechnology: present status and prospects of reproductive healthcare aided by nano-biotechnology. <i>Nano Reviews</i> , 2014, 5, 22762.	3.7	53
67	Endometrial receptivity markers in infertile women stimulated with letrozole compared with clomiphene citrate and natural cycles. <i>Systems Biology in Reproductive Medicine</i> , 2014, 60, 105-111.	1.0	27
68	Letrozole dispersed on poly (vinyl alcohol) anchored maleic anhydride grafted low density polyethylene: A controlled drug delivery system for treatment of breast cancer. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 116, 169-175.	2.5	24
69	¹ H NMR Serum Metabonomics for Understanding Metabolic Dysregulation in Women with Idiopathic Recurrent Spontaneous Miscarriage during Implantation Window. <i>Journal of Proteome Research</i> , 2014, 13, 3100-3106.	1.8	24
70	Redox-active nanoceria depolarize mitochondrial membrane of human colon cancer cells. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	27
71	Assessment of sub-endometrial blood flow parameters following dydrogesterone and micronized vaginal progesterone administration in women with idiopathic recurrent miscarriage: A pilot study. <i>Journal of Obstetrics and Gynaecology Research</i> , 2014, 40, 1871-1876.	0.6	16
72	Altered metabolic profile in early and late onset preeclampsia: An FTIR spectroscopic study. <i>Pregnancy Hypertension</i> , 2014, 4, 70-80.	0.6	15

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73	Markers of oxidative stress in follicular fluid of women with endometriosis and tubal infertility undergoing IVF. <i>Reproductive Toxicology</i> , 2013, 42, 116-124.	1.3	142
74	Proinflammatory cytokines induced altered expression of cyclooxygenase-2 gene results in unreceptive endometrium in women with idiopathic recurrent spontaneous miscarriage. <i>Fertility and Sterility</i> , 2013, 99, 179-187.e2.	0.5	72
75	HOXA-11 mediated dysregulation of matrix remodeling during implantation window in women with endometriosis. <i>Journal of Assisted Reproduction and Genetics</i> , 2013, 30, 1505-1512.	1.2	23
76	Assessment of vascular health using photoplethysmograph and a Two-Pulse synthesis model for patients under hemodialysis with End Stage Renal Disease. , 2013, , .		2
77	Mitigation of endometriosis using regenerative cerium oxide nanoparticles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013, 9, 439-448.	1.7	84
78	Altered circulating levels of matrix metalloproteinases 2 and 9 and their inhibitors and effect of progesterone supplementation in women with endometriosis undergoing in vitro fertilization. <i>Fertility and Sterility</i> , 2013, 100, 127-134.e1.	0.5	34
79	Oxidative status in granulosa cells of infertile women undergoing IVF. <i>Systems Biology in Reproductive Medicine</i> , 2013, 59, 91-98.	1.0	90
80	Recurrent implantation success in consecutive embryo transfer cycles: a unique case report. <i>Systems Biology in Reproductive Medicine</i> , 2013, 59, 285-286.	1.0	4
81	1H NMR Based Targeted Metabolite Profiling for Understanding the Complex Relationship Connecting Oxidative Stress with Endometriosis. <i>BioMed Research International</i> , 2013, 2013, 1-9.	0.9	55
82	Identification of Key Contributory Factors Responsible for Vascular Dysfunction in Idiopathic Recurrent Spontaneous Miscarriage. <i>PLoS ONE</i> , 2013, 8, e80940.	1.1	82
83	Therapeutic targeting of the TNF superfamily: A promising treatment for advanced endometrial adenocarcinoma. <i>Gynecologic Oncology</i> , 2012, 127, 426-432.	0.6	6
84	Oocyte quality reflected by follicular fluid analysis in poly cystic ovary syndrome (PCOS): A hypothesis based on intermediates of energy metabolism. <i>Medical Hypotheses</i> , 2012, 78, 475-478.	0.8	47
85	A metabonomics approach as a means for identification of potential biomarkers for early diagnosis of endometriosis. <i>Molecular BioSystems</i> , 2012, 8, 3281.	2.9	91
86	AEE788 potentiates celecoxib-induced growth inhibition and apoptosis in human colon cancer cells. <i>Life Sciences</i> , 2012, 91, 789-799.	2.0	13
87	Posterior capsular opacification and intraocular lens surface micro-roughness characteristics: An atomic force microscopy study. <i>Micron</i> , 2012, 43, 937-947.	1.1	22
88	Comparison of oral dydrogesterone with progesterone gel and micronized progesterone for luteal support in 1,373 women undergoing in vitro fertilization: a randomized clinical study. <i>Fertility and Sterility</i> , 2011, 95, 1961-1965.	0.5	61
89	Application and performance analysis of a two-pulse synthesis model on Photoplethysmograph signals of diabetic subjects. <i>International Journal of Biomedical Engineering and Technology</i> , 2011, 7, 291.	0.2	6
90	Upper control limit of reactive oxygen species in follicular fluid beyond which viable embryo formation is not favorable. <i>Reproductive Toxicology</i> , 2010, 29, 447-451.	1.3	100

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91	Effect of AEE788 and/or Celecoxib on colon cancer cell morphology using advanced microscopic techniques. <i>Micron</i> , 2010, 41, 247-256.	1.1	25
92	Does oral antioxidant administration improve semen parameters in infertile men?. , 2010, , .		0
93	Detrimental effects of oxidative stress on sperm membrane and DNA integrity in normozoospermic infertile men. , 2010, , .		0
94	Molecular characterization of selenoproteins based on decreased glutathione peroxidase activity in preeclampsia. , 2010, , .		1
95	A low cost short-term sperm preservation procedure for double IUI in controlled ovarian hyperstimulation cycles. , 2010, , .		0
96	Clinical biomarker for predicting preeclampsia in women with abnormal lipid profile: Statistical pattern classification approach. , 2010, , .		4
97	Expression of α 3 integrin, leukemia inhibitory factor and pinopodes as markers of endometrial receptivity in idiopathic recurrent spontaneous miscarriage. , 2010, , .		0
98	Analysis of spindle characteristics and embryo quality in mice stimulated with letrozole using Polscope imaging. <i>Fertility and Sterility</i> , 2010, 93, 1477-1481.	0.5	5
99	Comparison of letrozole with continuous gonadotropins and clomiphene-gonadotropin combination for ovulation induction in 1387 PCOS women after clomiphene citrate failure: a randomized prospective clinical trial. <i>Journal of Assisted Reproduction and Genetics</i> , 2009, 26, 19-24.	1.2	63
100	Luteal phase estradiol level: a potential predictive marker for successful pregnancy in in vitro fertilization/intracytoplasmic sperm injection. <i>Fertility and Sterility</i> , 2009, 91, 1018-1022.	0.5	23
101	Study of the microstructural properties of RISUG® A newly developed male contraceptive. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008, 86B, 154-161.	1.6	5
102	Cut-off Value of Reactive Oxygen Species for Predicting Semen Quality and Fertilization Outcome. <i>Systems Biology in Reproductive Medicine</i> , 2008, 54, 47-54.	1.0	22
103	Quantitative analysis of surface micro-roughness alterations in human spermatozoa using atomic force microscopy. <i>Journal of Microscopy</i> , 2007, 227, 118-123.	0.8	17
104	Topological Analysis of a Polymer Based Contraceptive Using Atomic Force Microscopy. <i>IFMBE Proceedings</i> , 2007, , 156-159.	0.2	0
105	Role of Latent Genital Tuberculosis in Repeated IVF Failure in the Indian Clinical Setting. <i>Gynecologic and Obstetric Investigation</i> , 2006, 61, 223-227.	0.7	50
106	Topological alterations in human spermatozoa associated with the polyelectrolytic effect of RISUG®. <i>Micron</i> , 2006, 37, 526-532.	1.1	16
107	Atomic force microscopy: a powerful tool for high-resolution imaging of spermatozoa. <i>Journal of Nanobiotechnology</i> , 2005, 3, 9.	4.2	34
108	Acrosin activity as a potential marker for sperm membrane characteristics in unexplained male infertility. <i>Fertility and Sterility</i> , 2005, 83, 104-109.	0.5	17

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109	Effect of a new injectable male contraceptive on the seminal plasma amino acids studied by proton NMR spectroscopy. Contraception, 2002, 66, 199-204.	0.8	15
110	<i>In Vitro</i> Release Characteristics of Hydrophobic Breast Cancer Drug Loaded Poly Lactic-co-Glycolic Acid (PLGA) Nanoparticles. Advanced Materials Research, 0, 1123, 312-315.	0.3	1