

Koel Chaudhury

List of Publications by Year in descending order

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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	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
2	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
3	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
4	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
5	Oxidative status in granulosa cells of infertile women undergoing IVF. <i>Systems Biology in Reproductive Medicine</i> , 2013, 59, 91-98.	1.0	90
6	Intrafollicular interleukin-8, interleukin-12, and adrenomedullin are the promising prognostic markers of oocyte and embryo quality in women with endometriosis. <i>Journal of Assisted Reproduction and Genetics</i> , 2016, 33, 1363-1372.	1.2	86
7	Mitigation of endometriosis using regenerative cerium oxide nanoparticles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013, 9, 439-448.	1.7	84
8	Identification of Key Contributory Factors Responsible for Vascular Dysfunction in Idiopathic Recurrent Spontaneous Miscarriage. <i>PLoS ONE</i> , 2013, 8, e80940.	1.1	82
9	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
10	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
11	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
12	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
13	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
14	Regenerative nanomedicine: current perspectives and future directions. <i>International Journal of Nanomedicine</i> , 2014, 9, 4153.	3.3	59
15	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
16	Preparation of albumin based nanoparticles for delivery of fisetin and evaluation of its cytotoxic activity. <i>International Journal of Biological Macromolecules</i> , 2016, 86, 408-417.	3.6	56
17	Exposure to ultrafine particulate matter induces NF- κ B mediated epigenetic modifications. <i>Environmental Pollution</i> , 2019, 252, 39-50.	3.7	56
18	¹ H 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

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19	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
20	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
21	Metabolomic alterations in invasive ductal carcinoma of breast: A comprehensive metabolomic study using tissue and serum samples. <i>Oncotarget</i> , 2018, 9, 2678-2696.	0.8	48
22	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
23	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
24	Metabolomics reveals perturbations in endometrium and serum of minimal and mild endometriosis. <i>Scientific Reports</i> , 2018, 8, 6466.	1.6	46
25	Urinary proteome alterations in HER2 enriched breast cancer revealed by multipronged quantitative proteomics. <i>Proteomics</i> , 2016, 16, 2403-2418.	1.3	45
26	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
27	Investigation of serum proteome alterations in human endometriosis. <i>Journal of Proteomics</i> , 2015, 114, 182-196.	1.2	36
28	Metabolomic fingerprinting and systemic inflammatory profiling of asthma COPD overlap (ACO). <i>Respiratory Research</i> , 2020, 21, 126.	1.4	36
29	Atomic force microscopy: a powerful tool for high-resolution imaging of spermatozoa. <i>Journal of Nanobiotechnology</i> , 2005, 3, 9.	4.2	34
30	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
31	Serum metabolomics of Indian women with polycystic ovary syndrome using ¹ H NMR coupled with a pattern recognition approach. <i>Molecular BioSystems</i> , 2016, 12, 3407-3416.	2.9	34
32	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. <i>RSC Advances</i> , 2016, 6, 101415-101429.	1.7	32
33	Metabolomics Reveals Altered Lipid Metabolism in a Mouse Model of Endometriosis. <i>Journal of Proteome Research</i> , 2016, 15, 2626-2633.	1.8	32
34	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
35	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
36	Epigenetic Biomarkers for Risk Assessment of Particulate Matter Associated Lung Cancer. <i>Current Drug Targets</i> , 2018, 19, 1127-1147.	1.0	28

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37	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
38	Redox-active nanoceria depolarize mitochondrial membrane of human colon cancer cells. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	27
39	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. <i>European Food Research and Technology</i> , 2016, 242, 733-743.	1.6	27
40	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
41	Metabolomic signatures of asthma-COPD overlap (ACO) are different from asthma and COPD. <i>Metabolomics</i> , 2019, 15, 87.	1.4	26
42	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
43	Nanoparticle-Assisted Combinatorial Therapy for Effective Treatment of Endometriosis. <i>Journal of Biomedical Nanotechnology</i> , 2015, 11, 789-804.	0.5	25
44	Repeated implantation failure versus repeated implantation success: discrimination at a metabolomic level. <i>Human Reproduction</i> , 2016, 31, 1265-1274.	0.4	25
45	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
46	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
47	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
48	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
49	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
50	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
51	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
52	Transcriptomics, proteomics and metabolomics driven biomarker discovery in COPD: an update. <i>Expert Review of Molecular Diagnostics</i> , 2016, 16, 897-913.	1.5	23
53	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
54	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

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55	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
56	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
57	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
58	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
59	Cell-Free Circulating Epigenomic Signatures: Non-Invasive Biomarker for Cardiovascular and Other Age-Related Chronic Diseases. <i>Current Pharmaceutical Design</i> , 2017, 23, 1175-1187.	0.9	20
60	Multipronged quantitative proteomics reveals serum proteome alterations in breast cancer intrinsic subtypes. <i>Journal of Proteomics</i> , 2017, 163, 1-13.	1.2	18
61	Metabolomic profiling of doxycycline treatment in chronic obstructive pulmonary disease. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 132, 103-108.	1.4	18
62	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
63	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
64	Topological alterations in human spermatozoa associated with the polyelectrolytic effect of RISUG®. <i>Micron</i> , 2006, 37, 526-532.	1.1	16
65	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
66	Proteomic-driven biomarker discovery in gestational diabetes mellitus: A review. <i>Journal of Proteomics</i> , 2015, 127, 44-49.	1.2	16
67	Effect of a new injectable male contraceptive on the seminal plasma amino acids studied by proton NMR spectroscopy. <i>Contraception</i> , 2002, 66, 199-204.	0.8	15
68	Altered metabolic profile in early and late onset preeclampsia: An FTIR spectroscopic study. <i>Pregnancy Hypertension</i> , 2014, 4, 70-80.	0.6	15
69	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
70	Effect of doxycycline in chronic obstructive pulmonary disease - An exploratory study. <i>Pulmonary Pharmacology and Therapeutics</i> , 2019, 58, 101831.	1.1	14
71	AEE788 potentiates celecoxib-induced growth inhibition and apoptosis in human colon cancer cells. <i>Life Sciences</i> , 2012, 91, 789-799.	2.0	13
72	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

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73	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
74	Immuno-cytometric detection of circulating cell free methylated DNA, post-translationally modified histones and micro RNAs using semi-conducting nanocrystals. Talanta, 2021, 222, 121516.	2.9	11
75	Proteomics in idiopathic pulmonary fibrosis: the quest for biomarkers. Molecular Omics, 2021, 17, 43-58.	1.4	11
76	Comparative profiling of epigenetic modifications among individuals living in different high and low air pollution zones: A pilot study from India. Environmental Advances, 2021, 4, 100052.	2.2	11
77	Nanoencapsulation as a Promising Platform for the Delivery of the Morin-Cu(II) Complex: Antibacterial and Anticancer Potential. ACS Omega, 2022, 7, 7931-7944.	1.6	11
78	Integrated mitoeigenetic signalling mechanisms associated with airborne particulate matter exposure: A cross-sectional pilot study. Atmospheric Pollution Research, 2022, 13, 101399.	1.8	11
79	Hand-drawn electrode based disposable paper chip for artificial sweat analysis using impedance spectroscopy. Biomedical Microdevices, 2021, 23, 42.	1.4	10
80	Fetal nucleic acids in maternal plasma from biology to clinical translation. Frontiers in Bioscience - Landmark, 2018, 23, 397-431.	3.0	9
81	Comprehensive quantitative lipidomic approach to investigate serum phospholipid alterations in breast cancer. Metabolomics, 2017, 13, 1.	1.4	8
82	Polycystic ovary syndrome in Indian women: a mass spectrometry based serum metabolomics approach. Metabolomics, 2017, 13, 1.	1.4	8
83	Rotational Dynamics of Optically Trapped Human Spermatozoa. Scientific World Journal, The, 2014, 2014, 1-7.	0.8	7
84	NMR metabolomic and microarray-based transcriptomic data integration identifies unique molecular signatures of hypersensitivity pneumonitis. Molecular Omics, 2022, 18, 101-111.	1.4	7
85	Application and performance analysis of a two-pulse synthesis model on Photoplethysmograph signals of diabetic subjects. International Journal of Biomedical Engineering and Technology, 2011, 7, 291.	0.2	6
86	Therapeutic targeting of the TNF superfamily: A promising treatment for advanced endometrial adenocarcinoma. Gynecologic Oncology, 2012, 127, 426-432.	0.6	6
87	A photonic dual nano-hybrid assay for detection of cell-free circulating mitochondrial DNA. Journal of Pharmaceutical and Biomedical Analysis, 2022, 208, 114441.	1.4	6
88	Study of the microstructural properties of RISUG® A newly developed male contraceptive. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2008, 86B, 154-161.	1.6	5
89	Analysis of spindle characteristics and embryo quality in mice stimulated with letrozole using Polscope imaging. Fertility and Sterility, 2010, 93, 1477-1481.	0.5	5
90	Immunological profiling and development of a sensing device for detection of IL-13 in COPD and asthma. Bioelectrochemistry, 2022, 143, 107971.	2.4	5

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91	Clinical biomarker for predicting preeclampsia in women with abnormal lipid profile: Statistical pattern classification approach. , 2010, , .		4
92	Recurrent implantation success in consecutive embryo transfer cycles: a unique case report. Systems Biology in Reproductive Medicine, 2013, 59, 285-286.	1.0	4
93	Polyaniline Functionalized Impedimetric Paper Sensor for Urine pH Measurement. IEEE Sensors Journal, 2021, 21, 14474-14482.	2.4	4
94	Identification of novel metabolic signatures potentially involved in the pathogenesis of COPD associated pulmonary hypertension. Metabolomics, 2021, 17, 94.	1.4	4
95	Therapeutic potential of curcumin in endometrial disorders: Current status and future perspectives. Drug Discovery Today, 2022, 27, 900-911.	3.2	4
96	Risk factors associated with mortality in hypersensitivity pneumonitis: a meta-analysis. Expert Review of Respiratory Medicine, 2022, 16, 801-811.	1.0	4
97	Mass spectrometry and bioinformatics analysis data. Data in Brief, 2015, 2, 21-25.	0.5	3
98	Mycobacterial heat shock protein 65 mediated metabolic shift in decidualization of human endometrial stromal cells. Scientific Reports, 2017, 7, 3942.	1.6	3
99	Assessment of vascular health using photoplethysmograph and a Two-Pulse synthesis model for patients under hemodialysis with End Stage Renal Disease. , 2013, , .		2
100	Identification of serum metabolic markers for diagnosis of women with dormant genital tuberculosis. Metabolomics, 2016, 12, 1.	1.4	2
101	Disposable Hand Drawn Electrode Paper based Urea Sensor by Impedance Spectroscopy. , 2019, , .		2
102	Molecular characterization of selenoproteins based on decreased glutathione peroxidase activity in preeclampsia. , 2010, , .		1
103	<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
104	A facile route to develop hydrophilicity on the polyolefin surface for biomedical applications. Advances in Polymer Technology, 2018, 37, 1410-1419.	0.8	1
105	Does oral antioxidant administration improve semen parameters in infertile men?. , 2010, , .		0
106	Detrimental effects of oxidative stress on sperm membrane and DNA integrity in normozoospermic infertile men. , 2010, , .		0
107	A low cost short-term sperm preservation procedure for double IUI in controlled ovarian hyperstimulation cycles. , 2010, , .		0
108	Expression of α 3 β 1 integrin, leukemia inhibitory factor and pinopodes as markers of endometrial receptivity in idiopathic recurrent spontaneous miscarriage. , 2010, , .		0

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109	Topological Analysis of a Polymer Based Contraceptive Using Atomic Force Microscopy. IFMBE Proceedings, 2007, , 156-159.	0.2	0
110	Impact of long-term doxycycline on lung function & exacerbations: A real-world open, prospective pilot observation on chronic obstructive pulmonary disease. Indian Journal of Medical Research, 2021, 153, 465-474.	0.4	0