

Vinod K Misra

List of Publications by Year in descending order

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51
papers

3,175
citations

218381

26
h-index

214527

47
g-index

52
all docs

52
docs citations

52
times ranked

3235
citing authors

#	ARTICLE	IF	CITATIONS
1	On the role of magnesium ions in RNA stability. , 1998, 48, 113-135.		291
2	Single-molecule transition-state analysis of RNA folding. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 9302-9307.	3.3	201
3	Salt Effects on Ligand-DNA Binding. Journal of Molecular Biology, 1994, 238, 245-263.	2.0	184
4	The linkage between magnesium binding and RNA folding 1 Edited by B. Honig. Journal of Molecular Biology, 2002, 317, 507-521.	2.0	183
5	A thermodynamic framework for Mg ²⁺ binding to RNA. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 12456-12461.	3.3	170
6	Salt Effects on Protein-DNA Interactions. Journal of Molecular Biology, 1994, 238, 264-280.	2.0	160
7	Mg ²⁺ binding to tRNA revisited: the nonlinear poisson-boltzmann model 1 Edited by B. Honig. Journal of Molecular Biology, 2000, 299, 813-825.	2.0	145
8	High Incidence of Noonan Syndrome Features Including Short Stature and Pulmonic Stenosis in Patients carrying NF1 Missense Mutations Affecting p.Arg1809: Genotypeâ€œPhenotype Correlation. Human Mutation, 2015, 36, 1052-1063.	1.1	143
9	A Compact RNA Tertiary Structure Contains a Buried Backboneâ€œK ⁺ Complex. Journal of Molecular Biology, 2002, 318, 963-973.	2.0	126
10	On the magnitude of the electrostatic contribution to ligand-DNA interactions.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 4691-4695.	3.3	120
11	The interpretation of Mg ²⁺ binding isotherms for nucleic acids using Poisson-Boltzmann theory. Journal of Molecular Biology, 1999, 294, 1135-1147.	2.0	117
12	Salt effects on polyelectrolyte-ligand binding: Comparison of Poisson-Boltzmann, and limiting law/counterion binding models. Biopolymers, 1995, 36, 245-262.	1.2	116
13	A thermodynamic framework for the magnesium-dependent folding of RNA. Biopolymers, 2003, 69, 118-136.	1.2	113
14	Tertiary Structure of an RNA Pseudoknot Is Stabilized by â€œDiffuseâ€œMg ²⁺ Ionsâ€œ. Biochemistry, 2007, 46, 2973-2983.	1.2	108
15	Electrostatic Contributions to the Binding Free Energy of the λ cl Repressor to DNA. Biophysical Journal, 1998, 75, 2262-2273.	0.2	105
16	Maternal Serum Lipids During Pregnancy and Infant Birth Weight: The Influence of Prepregnancy BMI. Obesity, 2011, 19, 1476-1481.	1.5	86
17	The Influence of Overweight and Obesity on Longitudinal Trends in Maternal Serum Leptin Levels During Pregnancy. Obesity, 2011, 19, 416-421.	1.5	73
18	Importance of Partially Unfolded Conformations for Mg ²⁺ -Induced Folding of RNA Tertiary Structure:â€œ Structural Models and Free Energies of Mg ²⁺ Interactions. Biochemistry, 2007, 46, 10266-10278.	1.2	72

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19	The Electrostatic Contribution to the B to Z Transition of DNA. <i>Biochemistry</i> , 1996, 35, 1115-1124.	1.2	62
20	Proton exchange in DNA-luzopeptin and DNA-echinomycin bisintercalation complexes: rates and processes of base-pair opening. <i>Biochemistry</i> , 1992, 31, 1407-1415.	1.2	59
21	Prepregnancy Body Mass Index and Gestational Age-Dependent Changes in Lipid Levels During Pregnancy. <i>Obstetrics and Gynecology</i> , 2010, 116, 107-113.	1.2	59
22	Changes in adipose tissue distribution during pregnancy in overweight and obese compared with normal weight women. <i>Nutrition and Diabetes</i> , 2013, 3, e84-e84.	1.5	55
23	Placental Blood Flow and the Risk of Preterm Delivery. <i>Placenta</i> , 2009, 30, 619-624.	0.7	53
24	Maternal serum leptin during pregnancy and infant birth weight: The influence of maternal overweight and obesity. <i>Obesity</i> , 2013, 21, 1064-1069.	1.5	48
25	RNA shows its metal. <i>Nature Structural Biology</i> , 1998, 5, 927-930.	9.7	46
26	Contribution of the Closing Base Pair to Exceptional Stability in RNA Tetraloops: Roles for Molecular Mimicry and Electrostatic Factors. <i>Journal of the American Chemical Society</i> , 2009, 131, 8474-8484.	6.6	38
27	Recurrent De Novo NAHR Reciprocal Duplications in the ATAD3 Gene Cluster Cause a Neurogenetic Trait with Perturbed Cholesterol and Mitochondrial Metabolism. <i>American Journal of Human Genetics</i> , 2020, 106, 272-279.	2.6	33
28	Characterization of protonated cytidine in oligonucleotides by nitrogen-15 NMR studies at natural abundance. <i>Journal of the American Chemical Society</i> , 1991, 113, 4687-4688.	6.6	22
29	Phenotypic heterogeneity in the presentation of d-2-hydroxyglutaric aciduria in monozygotic twins. <i>Molecular Genetics and Metabolism</i> , 2005, 86, 200-205.	0.5	21
30	The Influence of Overweight and Obesity on Maternal Soluble fms-Like Tyrosine Kinase 1 and Its Relationship With Leptin During Pregnancy. <i>Reproductive Sciences</i> , 2013, 20, 269-275.	1.1	18
31	A Novel Kleefstra Syndrome-associated Variant That Affects the Conserved TPLX Motif within the Ankyrin Repeat of EHMT1 Leads to Abnormal Protein Folding. <i>Journal of Biological Chemistry</i> , 2017, 292, 3866-3876.	1.6	18
32	Racial differences in IGF1 methylation and birth weight. <i>Clinical Epigenetics</i> , 2015, 7, 47.	1.8	17
33	Infantile Hypertrophic Cardiomyopathy Associated with a Novel MYL3 Mutation. <i>Cardiology</i> , 2013, 124, 248-251.	0.6	16
34	A complex 6p25 rearrangement in a child with multiple epiphyseal dysplasia. <i>American Journal of Medical Genetics, Part A</i> , 2011, 155, 154-163.	0.7	13
35	Consolidation of the clinical and genetic definition of a SOX4-related neurodevelopmental syndrome. <i>Journal of Medical Genetics</i> , 2022, 59, 1058-1068.	1.5	10
36	The effects of maternal weight gain patterns on term birth weight in African-American women. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2010, 23, 842-849.	0.7	9

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37	Infantile Adrenocortical Tumor with an ActivatingGNAS1Mutation. Journal of Clinical Endocrinology and Metabolism, 2013, 98, E115-E118.	1.8	9
38	Ornithine Transcarbamylase Deficiency Presenting With Acute Reversible Cortical Blindness. Journal of Child Neurology, 2015, 30, 782-785.	0.7	9
39	A Case of 45,X/46,XY Mosaicism Presenting as Swyer Syndrome. Journal of Pediatric and Adolescent Gynecology, 2020, 33, 577-580.	0.3	9
40	The effect of maternal soluble FMS-like tyrosine kinase 1 during pregnancy on risk of preterm delivery. Journal of Maternal-Fetal and Neonatal Medicine, 2012, 25, 1879-1883.	0.7	8
41	Preterm Delivery as a Unique Pathophysiologic State Characterized by Maternal Soluble FMS-Like Tyrosine Kinase 1 and Uterine Artery Resistance During Pregnancy: A Longitudinal Cohort Study. Reproductive Sciences, 2017, 24, 1583-1589.	1.1	7
42	Psychiatric disease in an adolescent as a harbinger of cerebral X-linked adrenoleukodystrophy. Practical Neurology, 2018, 18, 242-245.	0.5	5
43	Delineating the genotypic and phenotypic spectrum of <i>HECW2</i> -related neurodevelopmental disorders. Journal of Medical Genetics, 2022, 59, 669-677.	1.5	5
44	Dermal Melanocytosis: More than Meets the Eye. Journal of Pediatrics, 2014, 165, 1060.	0.9	4
45	A Case of Congenital Hypopituitarism Associated With a 1p31 Microdeletion: A Possible Role for LEPR and JAK1. Journal of the Endocrine Society, 2017, 1, 278-282.	0.1	4
46	Ethnic heterogeneity in the longitudinal effects of placental vascular blood flow on birthweight. American Journal of Obstetrics and Gynecology, 2008, 198, 72.e1-72.e8.	0.7	3
47	Declining School Performance as a Harbinger of a Treatable Neurodegenerative Condition. Journal of Pediatrics, 2012, 160, 1062-1062.e1.	0.9	1
48	Rib Fracture in a Term Newborn with Respiratory Distress. NeoReviews, 2021, 22, e559-e563.	0.4	1
49	236: The association of maternal lipids during pregnancy and infant birthweight. American Journal of Obstetrics and Gynecology, 2009, 201, S98.	0.7	0
50	Case 3: A 10-year-old Boy with Saber Shins. Pediatrics in Review, 2018, 39, 523-526.	0.2	0
51	A 3â€²-truncating FTL mutation associated with hypoferritinemia without neuroferritinopathy. European Journal of Medical Genetics, 2021, 64, 104159.	0.7	0