Elad Tako

List of Publications by Citations

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94 papers	2,460 citations	28 h-index	46 g-index
99 ext. papers	3,091 ext. citations	5.5 avg, IF	5.79 L-index

#	Paper	IF	Citations
94	Oral exposure to polystyrene nanoparticles affects iron absorption. *Nature Nanotechnology*, **2012**, 7, 264-71	28.7	237
93	Biofortified indica rice attains iron and zinc nutrition dietary targets in the field. *Scientific Reports*, **2016**, 6, 19792	4.9	181
92	Chronic Zinc Deficiency Alters Chick Gut Microbiota Composition and Function. *Nutrients*, **2015**, 7, 9768-84	6.7	112
91	Titanium Dioxide Nanoparticle Ingestion Alters Nutrient Absorption in an Model of the Small Intestine. *NanoImpact*, **2017**, 5, 70-82	5.6	104
90	Dietary inulin affects the expression of intestinal enterocyte iron transporters, receptors and storage protein and alters the microbiota in the pig intestine. *British Journal of Nutrition*, **2008**, 99, 472-80	3.6	96
89	The Linoleic Acid: Dihomo-□Linolenic Acid Ratio (LA: DGLA)- an Emerging Biomarker of Zinc Status. *Current Developments in Nutrition*, **2020**, 4, 1842-1842	0.4	78
88	Identification of Black Bean (Phaseolus vulgaris L.) Polyphenols That Inhibit and Promote Iron Uptake by Caco-2 Cells. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 5950-6	5.7	71
87	Changes in chicken intestinal zinc exporter mRNA expression and small intestinal functionality following intra-amniotic zinc-methionine administration. *Journal of Nutritional Biochemistry*, **2005**, 16, 339-46	6.3	70
86	Using the domestic chicken (Gallus gallus) as an in vivo model for iron bioavailability. *Poultry Science* , **2010**, 89, 514-21	3.9	62
85	Higher iron pearl millet (Pennisetum glaucum L.) provides more absorbable iron that is limited by increased polyphenolic content. *Nutrition Journal*, **2015**, 14, 11	4.3	55
84	Polyphenolic compounds appear to limit the nutritional benefit of biofortified higher iron black bean (Phaseolus vulgaris L.). *Nutrition Journal*, **2014**, 13, 28	4.3	55
83	Biofortified red mottled beans (Phaseolus vulgaris L.) in a maize and bean diet provide more bioavailable iron than standard red mottled beans: studies in poultry (Gallus gallus) and an in vitro digestion/Caco-2 model. *Nutrition Journal*, **2011**, 10, 113	4.3	55
82	Dietary zinc deficiency affects blood linoleic acid: dihomo-□linolenic acid (LA:DGLA) ratio; a sensitive physiological marker of zinc status in vivo (Gallus gallus). *Nutrients*, **2014**, 6, 1164-80	6.7	49
81	White beans provide more bioavailable iron than red beans: studies in poultry (Gallus gallus) and an in vitro digestion/Caco-2 model. *International Journal for Vitamin and Nutrition Research*, **2010**, 80, 416-29	1.7	49
80	The effect of wheat prebiotics on the gut bacterial population and iron status of iron deficient broiler chickens. *Nutrition Journal*, **2014**, 13, 58	4.3	45
79	Intra Amniotic Administration of Raffinose and Stachyose Affects the Intestinal Brush Border Functionality and Alters Gut Microflora Populations. *Nutrients*, **2017**, 9,	6.7	44
78	Metabolic engineering of bread wheat improves grain iron concentration and bioavailability. *Plant Biotechnology Journal*, **2019**, 17, 1514-1526	11.6	43

77	Characterization of Polyphenol Effects on Inhibition and Promotion of Iron Uptake by Caco-2 Cells. *Journal of Agricultural and Food Chemistry*, **2017**, 65, 3285-3294	5.7	41
76	High bioavailability iron maize (Zea mays L.) developed through molecular breeding provides more absorbable iron in vitro (Caco-2 model) and in vivo (Gallus gallus). *Nutrition Journal*, **2013**, 12, 3	4.3	40
75	Silicon dioxide nanoparticle exposure affects small intestine function in an in vitro model. *Nanotoxicology*, **2018**, 12, 485-508	5.3	39
74	Studies of Cream Seeded Carioca Beans (Phaseolus vulgaris L.) from a Rwandan Efficacy Trial: In Vitro and In Vivo Screening Tools Reflect Human Studies and Predict Beneficial Results from Iron Biofortified Beans. *PLoS ONE*, **2015**, 10, e0138479	3.7	36
73	The Combined Application of the Caco-2 Cell Bioassay Coupled with In Vivo (Gallus gallus) Feeding Trial Represents an Effective Approach to Predicting Fe Bioavailability in Humans. *Nutrients*, **2016**, 8,	6.7	34
72	Demonstrating a Nutritional Advantage to the Fast-Cooking Dry Bean (Phaseolus vulgaris L.). *Journal of Agricultural and Food Chemistry*, **2016**, 64, 8592-8603	5.7	33
71	Biofortified black beans in a maize and bean diet provide more bioavailable iron to piglets than standard black beans. *Journal of Nutrition*, **2009**, 139, 305-9	4.1	32
70	Alterations in the Gut (Gallus gallus) Microbiota Following the Consumption of Zinc Biofortified Wheat (Triticum aestivum)-Based Diet. *Journal of Agricultural and Food Chemistry*, **2018**, 66, 6291-6299	5.7	30
69	The cotyledon cell wall and intracellular matrix are factors that limit iron bioavailability of the common bean (Phaseolus vulgaris). *Food and Function*, **2016**, 7, 3193-200	6.1	29
68	The Fast Cooking and Enhanced Iron Bioavailability Properties of the Manteca Yellow Bean (L.). *Nutrients*, **2018**, 10,	6.7	29
67	The In Ovo Feeding Administration (Gallus Gallus)-An Emerging In Vivo Approach to Assess Bioactive Compounds with Potential Nutritional Benefits. *Nutrients*, **2018**, 10,	6.7	28
66	The Linoleic Acid: Dihomo-□Linolenic Acid Ratio (LA:DGLA)-An Emerging Biomarker of Zn Status. *Nutrients*, **2017**, 9,	6.7	28
65	Intra-Amniotic Administration (Gallus gallus) of Cicer arietinum and Lens culinaris Prebiotics Extracts and Duck Egg White Peptides Affects Calcium Status and Intestinal Functionality. *Nutrients* , **2017**, 9,	6.7	28
64	Ontogeny of brush border carbohydrate digestion and uptake in the chick. *British Journal of Nutrition*, **2003**, 89, 747-53	3.6	27
63	Iron and zinc bioavailabilities to pigs from red and white beans (Phaseolus vulgaris L.) are similar. *Journal of Agricultural and Food Chemistry*, **2009**, 57, 3134-40	5.7	26
62	Iron Biofortified Carioca Bean (L.)-Based Brazilian Diet Delivers More Absorbable Iron and Affects the Gut Microbiota In Vivo (). *Nutrients*, **2018**, 10,	6.7	26
61	Iron Bioavailability Studies of the First Generation of Iron-Biofortified Beans Released in Rwanda. *Nutrients*, **2017**, 9,	6.7	24
60	Intra-amniotic administration and dietary inulin affect the iron status and intestinal functionality of iron-deficient broiler chickens. *Poultry Science*, **2012**, 91, 1361-70	3.9	24

59	Bioavailability of iron in geophagic earths and clay minerals, and their effect on dietary iron absorption using an in vitro digestion/Caco-2 cell model. *Food and Function*, **2013**, 4, 1263-70	6.1	22
58	Characterizing the gut (Gallus gallus) microbiota following the consumption of an iron biofortified Rwandan cream seeded carioca (Phaseolus Vulgaris L.) bean-based diet. *PLoS ONE*, **2017**, 12, e0182431	3.7	21
57	Iron bioavailability to piglets from red and white common beans (Phaseolus vulgaris). *Journal of Agricultural and Food Chemistry*, **2008**, 56, 5008-14	5.7	20
56	An In Vivo () Feeding Trial Demonstrating the Enhanced Iron Bioavailability Properties of the Fast Cooking Manteca Yellow Bean (L.). *Nutrients*, **2019**, 11,	6.7	19
55	Supplemental inulin does not enhance iron bioavailability to Caco-2 cells from milk- or soy-based, probiotic-containing, yogurts but incubation at 37C does. *Food Chemistry*, **2008**, 109, 122-8	8.5	19
54	Polyphenolic Profiles of Yellow Bean Seed Coats and Their Relationship with Iron Bioavailability. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 769-778	5.7	19
53	Linoleic Acid:Dihomo-Linolenic Acid Ratio Predicts the Efficacy of Zn-Biofortified Wheat in Chicken (Gallus gallus). *Journal of Agricultural and Food Chemistry*, **2018**, 66, 1394-1400	5.7	18
52	Soil consumed by chacma baboons is low in bioavailable iron and high in clay. *Journal of Chemical Ecology*, **2013**, 39, 447-9	2.7	18
51	Alterations in gut microflora populations and brush border functionality following intra-amniotic daidzein administration. *RSC Advances*, **2015**, 5, 6407-6412	3.7	17
50	ZnO nanoparticles affect nutrient transport in an in vitro model of the small intestine. *Food and Chemical Toxicology*, **2019**, 124, 112-127	4.7	17
49	Soluble extracts from carioca beans (Phaseolus vulgaris L.) affect the gut microbiota and iron related brush border membrane protein expression in vivo (Gallus gallus). *Food Research International*, **2019**, 123, 172-180	7	16
48	Isolated glycosaminoglycans from cooked haddock enhance nonheme iron uptake by Caco-2 cells. *Journal of Agricultural and Food Chemistry*, **2008**, 56, 10346-51	5.7	15
47	Alterations in gut microflora populations and brush border functionality following intra-amniotic administration (Gallus gallus) of wheat bran prebiotic extracts. *Food and Function*, **2019**, 10, 4834-4843	6.1	14
46	Effects of Anthocyanin on Intestinal Health: A Systematic Review. *Nutrients*, **2021**, 13,	6.7	14
45	TiO Nanoparticles and Commensal Bacteria Alter Mucus Layer Thickness and Composition in a Gastrointestinal Tract Model. *Small*, **2020**, 16, e2000601	11	13
44	Advantages and limitations of in vitro and in vivo methods of iron and zinc bioavailability evaluation in the assessment of biofortification program effectiveness. *Critical Reviews in Food Science and Nutrition*, **2018**, 58, 2136-2146	11.5	13
43	Milk peptides increase iron dialyzability in water but do not affect DMT-1 expression in Caco-2 cells. *Journal of Agricultural and Food Chemistry*, **2009**, 57, 1538-43	5.7	13
42	Inulin affects iron dialyzability from FeSO4 and FeEDTA solutions but does not alter Fe uptake by Caco-2 cells. *Journal of Agricultural and Food Chemistry*, **2008**, 56, 2846-51	5.7	13

41	Iron Status of the Late Term Broiler (Gallus gallus) Embryo and Hatchling. *International Journal of Poultry Science*, **2010**, 10, 42-48	0.3	13
40	Iron biofortification of maize grain. *Plant Genetic Resources: Characterisation and Utilisation*, **2011**, 9, 327-329	1	12
39	Soluble Extracts from Chia Seed (L.) Affect Brush Border Membrane Functionality, Morphology and Intestinal Bacterial Populations In Vivo (). *Nutrients*, **2019**, 11,	6.7	11
38	Nicotianamine-chelated iron positively affects iron status, intestinal morphology and microbial populations in vivo (Gallus gallus). *Scientific Reports*, **2020**, 10, 2297	4.9	10
37	Hydrolysis of Soybean Protein Improves Iron Bioavailability by Caco-2 Cell. *Journal of Food and Nutrition Research (Newark, Del)*, **2014**, 2, 162-166	1.9	9
36	Intra-amniotic administration (Gallus gallus) of TiO, SiO, and ZnO nanoparticles affect brush border membrane functionality and alters gut microflora populations. *Food and Chemical Toxicology*, **2020**, 135, 110896	4.7	9
35	Yacon (Smallanthus sonchifolius) flour soluble extract improve intestinal bacterial populations, brush border membrane functionality and morphology in vivo (Gallus gallus). *Food Research International*, **2020**, 137, 109705	7	9
34	Relative Bioavailability of Iron in Bangladeshi Traditional Meals Prepared with Iron-Fortified Lentil Dal. *Nutrients*, **2018**, 10,	6.7	8
33	Evaluation of metallothionein formation as a proxy for zinc absorption in an in vitro digestion/Caco-2 cell culture model. *Food and Function*, **2012**, 3, 732-6	6.1	8
32	Low Phytate Peas (L.) Improve Iron Status, Gut Microbiome, and Brush Border Membrane Functionality In Vivo (). *Nutrients*, **2020**, 12,	6.7	8
31	A Novel in Vivo Model for Assessing the Impact of Geophagic Earth on Iron Status. *Nutrients*, **2016**, 8,	6.7	8
30	Alterations in the Intestinal Morphology, Gut Microbiota, and Trace Mineral Status Following Intra-Amniotic Administration () of Teff () Seed Extracts. *Nutrients*, **2020**, 12,	6.7	7
29	ZnO nanoparticles affect intestinal function in an in vitro model. *Food and Function*, **2018**, 9, 1475-1491	6.1	7
28	Effects of Iron and Zinc Biofortified Foods on Gut Microbiota In Vivo (): A Systematic Review. *Nutrients*, **2021**, 13,	6.7	7
27	The Germ Fraction Inhibits Iron Bioavailability of Maize: Identification of an Approach to Enhance Maize Nutritional Quality via Processing and Breeding. *Nutrients*, **2019**, 11,	6.7	6
26	Investigation of Nicotianamine and 2'Deoxymugineic Acid as Enhancers of Iron Bioavailability in Caco-2 Cells. *Nutrients*, **2019**, 11,	6.7	6
25	Induction of Low-Level Hydrogen Peroxide Generation by Unbleached Cotton Nonwovens as Potential Wound Dressing Materials. *Journal of Functional Biomaterials*, **2017**, 8,	4.8	6
24	Effect of Rice Constitutive Overexpression on Ascorbate Concentration, Stress Tolerance, and Iron Bioavailability in Rice. *Frontiers in Plant Science*, **2020**, 11, 595439	6.2	6

23	Synthesis and characterization of TEMPO-oxidized peptide-cellulose conjugate biosensors for detecting human neutrophil elastase. *Cellulose*, **2022**, 29, 1293-1305	5.5	5
22	Comparison of cellooligosaccharide conformations in complexes with proteins with energy maps for cellobiose. *Carbohydrate Polymers*, **2021**, 264, 118004	10.3	5
21	Saffron (L.) Flower Water Extract Disrupts the Cecal Microbiome, Brush Border Membrane Functionality, and Morphology In Vivo ().. *Nutrients*, **2022**, 14,	6.7	4
20	The Role of Metal Oxide Nanoparticles, , and on Small Intestinal Enzyme Activity. *Environmental Science: Nano*, **2020**, 7, 3940-3964	7.1	3
19	Modifications in the Intestinal Functionality, Morphology and Microbiome Following Intra-Amniotic Administration () of Grape () Stilbenes (Resveratrol and Pterostilbene). *Nutrients*, **2021**, 13,	6.7	3
18	Effect of milk peptides that enhance iron uptake by Caco-2 cells on the expression of DMT-1 and on iron dialyzability from meals. *FASEB Journal*, **2008**, 22, 673-673	0.9	2
17	Zinc Status Index (ZSI) for Quantification of Zinc Physiological Status. *Nutrients*, **2021**, 13,	6.7	2
16	Detection of Human Neutrophil Elastase by Fluorescent Peptide Sensors Conjugated to TEMPO-Oxidized Nanofibrillated Cellulose.. *International Journal of Molecular Sciences*, **2022**, 23,	6.3	2
15	Retraction Note: High bioavailablilty iron maize (Zea mays L.) developed through molecular breeding provides more absorbable iron in vitro (Caco-2 model) and in vivo (Gallus gallus). *Nutrition Journal*, **2015**, 14, 126	4.3	1
14	Quinoa Soluble Fiber and Quercetin Alter the Composition of the Gut Microbiome and Improve Brush Border Membrane Morphology In Vivo ().. *Nutrients*, **2022**, 14,	6.7	1
13	Inulin and Mucins in the Intestine can reduce Iron uptake from dissociable suplements. *FASEB Journal*, **2008**, 22, 745-745	0.9	1
12	Biofortified Black Beans (Phaseolus vulgaris L.) in a Maize and Bean Diet Provide More Bioavailable Iron to Chickens (Gallus gallus) Than Standard Black Beans. *FASEB Journal*, **2013**, 27, 859.9	0.9	1
11	Plant origin prebiotics affect duodenal brush border membrane functionality and morphology, (). *Food and Function*, **2021**, 12, 6157-6166	6.1	1
10	Dry heated sorghum BRS 305 hybrid flour as a source of resistant starch and tannins improves inflammation and oxidative stress in Wistar rats fed with a high-fat high-fructose diet. *Food and Function*, **2021**, 12, 8738-8746	6.1	1
9	Black corn (Zea Mays L.) soluble extract showed anti-inflammatory effects and improved the intestinal barrier integrity in vivo (Gallus gallus). *Food Research International*, **2022**, 111227	7	1
8	Multi-year field evaluation of nicotianamine biofortified bread wheat.. *Plant Journal*, **2021**,	6.9	1
7	Zinc-biofortified staple food crops to improve zinc status in humans: a systematic review. *Critical Reviews in Food Science and Nutrition*, **2021**, 1-13	11.5	0
6	Effects of dietary fiber on intestinal iron absorption, and physiological status: a systematic review of and clinical studies.. *Critical Reviews in Food Science and Nutrition*, **2022**, 1-16	11.5	0

5	Red and white beans provide equivalent amounts of bioavailable iron to weanling piglets. *FASEB Journal*, **2006**, 20, LB88	0.9
4	Dietary zinc deficiency affects blood linoleic acid:dihomo-□linolenic acid ratio: a sensitive physiological marker of zinc status in vivo (Gallus gallus) (1043.2). *FASEB Journal*, **2014**, 28, 1043.2	0.9
3	Using the domestic chicken (Gallus gallus) as an in vivo screening tool for Fe bioavailability. *FASEB Journal*, **2009**, 23, 921.14	0.9
2	Biofortified maize (Zea mays L.) provides more bioavailable iron than standard maize: Studies in poultry (Gallus gallus) and an in vitro digestion/Caco-2 model. *FASEB Journal*, **2012**, 26, 1019.1	0.9
1	Biofortified red mottled beans (Phaseolus vulgaris L) in a maize and bean diet provide more bioavailable iron than standard red mottled beans: Studies in poultry (Gallus gallus) and an in vitro digestion/Caco 2 model. *FASEB Journal*, **2012**, 26, 365.8	0.9