Mehmet Mutlu

List of Publications by Year
in descending order

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129	2,566	172457	243625
papers	citations	29 h-index	44 g-index

132	132	132	3063
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Decontamination of Aspergillus flavus and Aspergillus parasiticus spores on hazelnuts via atmospheric pressure fluidized bed plasma reactor. International Journal of Food Microbiology, 2016, 216, 50-59.	4.7	112
2	Controlled release of a hydrophilic drug from coaxially electrospun polycaprolactone nanofibers. International Journal of Pharmaceutics, 2016, 505, 133-138.	5.2	108
3	The use of commercial pectinase in fruit juice industry. Part 3: Immobilized pectinase for mash treatment. Journal of Food Engineering, 2001, 47, 275-280.	5.2	97
4	A New and Simple Approach for Decontamination of Food Contact Surfaces with Gliding Arc Discharge Atmospheric Non-Thermal Plasma. Food and Bioprocess Technology, 2017, 10, 650-661.	4.7	79
5	Nonthermal plasma treatment of Aspergillus spp. spores on hazelnuts in an atmospheric pressure fluidized bed plasma system: Impact of process parameters and surveillance of the residual viability of spores. Journal of Food Engineering, 2017, 196, 139-149.	5.2	75
6	Modification of food contacting surfaces by plasma polymerisation technique. Part I: Determination of hydrophilicity, hydrophobicity and surface free energy by contact angle method. Journal of Food Engineering, 2006, 75, 187-195.	5.2	71
7	A study of macromolecular diffusion through native porcine mucus. Experientia, 1992, 48, 22-26.	1.2	69
8	Inactivation of aflatoxigenic fungi (Aspergillus spp.) on granular food model, maize, in an atmospheric pressure fluidized bed plasma system. Food Control, 2016, 70, 1-8.	5.5	69
9	Optimization of lactose utilization in deproteinated whey by Kluyveromyces marxianus using response surface methodology (RSM). Bioresource Technology, 2006, 97, 2252-2259.	9.6	67
10	The use of commercial pectinase in the fruit juice industry, part 2: Determination of the kinetic behaviour of immobilized commercial pectinase. Journal of Food Engineering, 2001, 47, 271-274.	5.2	58
11	QCM-based DNA biosensor for detection of genetically modified organisms (GMOs). Biochemical Engineering Journal, 2009, 44, 142-150.	3.6	55
12	Surface modification of polyester and polyamide fabrics by low frequency plasma polymerization of acrylic acid. Journal of Applied Polymer Science, 2007, 104, 2318-2322.	2.6	53
13	Modification of glass fibers to improve reinforcement: A plasma polymerization technique. Dental Materials, 2007, 23, 335-342.	3.5	53
14	The use of commercial pectinase in fruit juice industry. Part I: viscosimetric determination of enzyme activity. Journal of Food Engineering, 1999, 41, 147-150.	5.2	52
15	Immobilization of Aspergillus oryzae Î²-Galactosidase onto Duolite A568 Resin via Simple Adsorption Mechanism. Food and Bioprocess Technology, 2012, 5, 904-911.	4.7	48
16	Detoxification of hazelnuts by different cold plasmas and gamma irradiation treatments. Innovative Food Science and Emerging Technologies, 2019, 54, 252-259.	5.6	48
17	Glow-discharge-treated cellulose acetate (CA) membrane for a high linearity single-layer glucose electrode in the food industry. Food Research International, 2000, 33, 107-112.	6.2	43
18	Antimicrobial, UV-protective and self-cleaning properties of cotton fabrics coated by dip-coating and solvothermal coating methods. Fibers and Polymers, 2011, 12, 461-470.	2.1	42

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19	Modification of Food-Contacting Surfaces by Plasma Polymerization Technique: Reducing the Biofouling of Microorganisms on Stainless Steel Surface. Food and Bioprocess Technology, 2012, 5, 166-175.	4.7	42
20	Immobilization of superoxide dismutase/catalase onto polysulfone membranes to suppress hemodialysis-induced oxidative stress: A comparison of two immobilization methods. Journal of Membrane Science, 2015, 479, 175-189.	8.2	42
21	Adrenal hemorrhage in newborns: a retrospective study. World Journal of Pediatrics, 2011, 7, 355-357.	1.8	40
22	Sterilization of Food Contacting Surfaces via Non-Thermal Plasma Treatment: A Model Study with Escherichia coli-Contaminated Stainless Steel and Polyethylene Surfaces. Food and Bioprocess Technology, 2013, 6, 3295-3304.	4.7	40
23	Surface modification of polyethersulfone membrane to improve its hydrophobic characteristics for waste frying oil filtration: Radio frequency plasma treatment. Journal of Applied Polymer Science, 2012, 123, 3402-3411.	2.6	39
24	Umbilical venous catheter complications in newborns: a 6-year single-center experience. Journal of Maternal-Fetal and Neonatal Medicine, 2016, 29, 2817-2822.	1.5	38
25	Modification of cellulose acetate membrane via low-pressure plasma polymerization for sugar separation applications: Part I. Membrane development and characterization. Journal of Membrane Science, 2010, 350, 310-321.	8.2	37
26	Characterization of glow-discharge-treated cellulose acetate membrane surfaces for single-layer enzyme electrode studies. Journal of Applied Polymer Science, 2001, 81, 1341-1352.	2.6	36
27	Aspergillus decontamination in hazelnuts: Evaluation of atmospheric and low-pressure plasma technology. Innovative Food Science and Emerging Technologies, 2019, 54, 235-242.	5.6	34
28	Effects of Electrospinning Setup and Process Parameters on Nanofiber Morphology Intended for the Modification of Quartz Crystal Microbalance Surfaces. Journal of Engineered Fibers and Fabrics, 2012, 7, 155892501200700.	1.0	32
29	Determination of apparent kinetic parameters for competitive product inhibition in packed-bed immobilized enzyme reactors. Biochemical Engineering Journal, 2003, 14, 27-36.	3.6	31
30	Immobilization of Aspergillus oryzae Î²-galactosidase on low-pressure plasma-modified cellulose acetate membrane using polyethyleneimine for production of galactooligosaccharide. Biotechnology and Bioprocess Engineering, 2010, 15, 1006-1015.	2.6	31
31	Controlled release of a hydrophilic drug from electrospun amyloid-like protein blend nanofibers. Materials Science and Engineering C, 2017, 81, 271-279.	7.3	30
32	A new method for determination of apparent kinetics parameters in recirculating packed-bed immobilized enzyme reactors. Chemical Engineering Science, 2001, 56, 3483-3490.	3.8	28
33	Preparation and characterization of ethylenediamine and cysteamine plasma polymerized films on piezoelectric quartz crystal surfaces for a biosensor. Thin Solid Films, 2008, 516, 1249-1255.	1.8	27
34	Controlled release of doxorubicin from polyethylene glycol functionalized melanin nanoparticles for breast cancer therapy: Part I. Production and drug release performance of the melanin nanoparticles. International Journal of Pharmaceutics, 2019, 570, 118613.	5.2	26
35	Hemodynamic Monitoring of the Contralateral Testis during Unilateral Testicular Torsion Describes the Mechanism of Damage. European Urology, 1998, 33, 576-580.	1.9	25
36	Performance of amperometric alcohol electrodes prepared by plasma polymerization technique. Analytica Chimica Acta, 2002, 469, 217-223.	5.4	24

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37	Status of vitamin D, antioxidant enzymes, and antioxidant substances in neonates with neonatal hypoxic-ischemic encephalopathy. Journal of Maternal-Fetal and Neonatal Medicine, 2016, 29, 2259-2263.	1.5	24
38	A comparative study of single-needle and coaxial electrospun amyloid-like protein nanofibers to investigate hydrophilic drug release behavior. International Journal of Biological Macromolecules, 2018, 114, 989-997.	7.5	24
39	A new method for immunosensor preparation: Atmospheric plasma torch. Surface and Coatings Technology, 2006, 201, 2540-2546.	4.8	23
40	The diffusion limited oxidase-based glucose enzyme electrode: relation between covering membrane permeability and substrate response. Journal of Membrane Science, 1993, 76, 261-268.	8.2	20
41	Amyloid-like protein nanofibrous membranes as a sensing layer infrastructure for the design of mass-sensitive biosensors. Biosensors and Bioelectronics, 2017, 97, 285-291.	10.1	20
42	Matrix surface modification by plasma polymerization for enzyme immobilization. Journal of Materials Chemistry, 1991, 1, 447.	6.7	18
43	Performance of immobilized Pectinex Ultra SP-L on magnetic duolite-polystyrene composite particles Part I: a batch reactor study. Journal of Food Engineering, 2004, 64, 417-421.	5.2	18
44	Surface modification and characterization of cotton and polyamide fabrics by plasma polymerization of hexamethyldisilane and hexamethyldisiloxane. International Journal of Clothing Science and Technology, 2009, 21, 137-145.	1.1	17
45	Natural Melanin Nanoparticleâ€decorated Screenâ€printed Carbon Electrode: Performance Test for Amperometric Determination of Hexavalent Chromium as Model Trace. Electroanalysis, 2020, 32, 1696-1706.	2.9	17
46	Performance of immobilized pectinex ultra SP-L on magnetic duolite-polystyrene composite particles. Part II: A magnetic fluidized bed reactor study. Journal of Food Engineering, 2005, 70, 1-6.	5.2	16
47	Blood plasma proteins and blood cells on polyurethane and alkylsiloxane plasma treated polyurethane surfaces. A dynamic approach by stimulus-response technique. Part I: Adsorption data. Clinical Materials, 1989, 4, 61-76.	0.5	15
48	Determination of effective mass transfer coefficient (kc) of patulin adsorption on activated carbon packed bed columns with recycling. Journal of Food Engineering, 1998, 35, 259-266.	5.2	15
49	The effects of HEMA-monomer and air atmosphere treatment of glass fibre on the transverse strength of a provisional fixed partial denture resin. Journal of Oral Rehabilitation, 2003, 30, 1142-1148.	3.0	15
50	Preparation and characterization of thin films by plasma polymerization of glycidoxypropyltrimethoxysilane at different plasma powers and exposure times. Applied Surface Science, 2009, 255, 8450-8457.	6.1	15
51	Generation of amphoteric surfaces via glow-discharge technique with single precursor and the behavior of bovine serum albumin at the surface. Colloids and Surfaces B: Biointerfaces, 2012, 89, 289-294.	5.0	15
52	Patulin Adsorption Kinetics on Activated Carbon, Activation Energy and Heat of Adsorption. Journal of Food Science, 1997, 62, 128-130.	3.1	14
53	High-Linearity Glucose Enzyme Electrodes for Food Industries: Preparation by a Plasma Polymerization Technique. ACS Symposium Series, 1998, , 57-65.	0.5	13
54	Preparation and characterization of magnetic duoliteâ€“polystyrene composite particles for enzyme immobilization. Journal of Food Engineering, 2004, 62, 203-208.	5.2	13

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55	Compliant snake robot locomotion on horizontal pipes. , 2015, , .		13
56	Biocatalytic protein membranes fabricated by electrospinning. Reactive and Functional Polymers, 2016, 103, 26-32.	4.1	13
57	Mixedâ€monolayer of Nâ€hydroxysuccinimideâ€terminated crossâ€linker and short alkanethiol to improve the efficiency of biomolecule binding for biosensing. Surface and Interface Analysis, 2018, 50, 866-878.	1.8	13
58	In vitro and in vivo bacterial antifouling properties of phosphite plasma-treated silicone. Surface Innovations, 2019, 7, 122-132.	2.3	13
59	Blood plasma proteins on polyurethane and alkylsiloxane plasma-treated polyurethane surfaces. Dynamic approach by stimulus-response technique. Medical and Biological Engineering and Computing, 1990, 28, 232-236.	2.8	12
60	The adsorption of copper(II) by Z. ramigera immobilized on Ca-alginate in packed bed columns: a dynamic approach by stimulus-response technique and evaluation of adsorption data by moment analysis. Chemical Engineering Journal, 1997, 65, 81-86.	12.7	12
61	Modification of food contacting surfaces by plasma polymerization technique. Part II: Static and dynamic adsorption behavior of a model protein â€œbovine serum albuminâ€•on stainless steel surface. Journal of Food Engineering, 2007, 78, 494-499.	5.2	12
62	Where to place cameras on a snake robot: Focus on camera trajectory and motion blur. , 2015, , .		12
63	Urinary tract infections in neonates with unexplained pathological indirect hyperbilirubinemia: Prevalence and significance. Pediatrics and Neonatology, 2018, 59, 305-309.	0.9	12
64	Estimation of liquid diffusivities of biosolutes by using diaphragm cell method with defined pore characteristics. Biotechnology Letters, 1995, 9, 413-416.	0.5	11
65	A RAPID METHOD FOR DETERMINATION OF VITAMINS D2 AND D3 IN PHARMACEUTICAL PREPARATIONS BY HPLC. Journal of Liquid Chromatography and Related Technologies, 2001, 24, 973-982.	1.0	11
66	A plasma polymerization technique to overcome cerebrospinal fluid shunt infections. Biomedical Materials (Bristol), 2007, 2, 39-47.	3.3	11
67	Surface modification of textiles by glow discharge technique: Part II: Low frequency plasma treatment of wool fabrics with acrylic acid. Journal of Applied Polymer Science, 2010, 116, 1545-1551.	2.6	11
68	Quality changes of hazelnut kernels subjected to different cold plasmas and gamma irradiation treatments. LWT - Food Science and Technology, 2019, 116, 108549.	5.2	11
69	Kubits: Solid-State Self-Reconfiguration With Programmable Magnets. IEEE Robotics and Automation Letters, 2020, 5, 6443-6450.	5.1	11
70	The effect of crosslink density on permeability in biosensors: An unsteady-state approach. Biotechnology Letters, 1995, 9, 277-282.	0.5	10
71	Amperometric determination of enzymatic activity by multienzyme biosensors. Journal of Food Engineering, 1997, 33, 81-86.	5.2	10
72	A novel approach for improvement of the interfacial binding of ceramics for dental materials: Chemical treatment and oxygen plasma etching. Journal of Applied Polymer Science, 2008, 110, 2656-2664.	2.6	10

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73	Simultaneous insulation and modification of quartz tuning fork surface by single-step plasma polymerization technique with amine-rich precursors. MRS Communications, 2018, 8, 541-549.	1.8	10
74	Kinetics of Î²-Casein/Immobilized Chymosin Hydrolysis. Enzyme and Microbial Technology, 1998, 22, 342-347.	3.2	9
75	Determination of Î²-glucan content of cereals with an amperometric glucose electrode. European Food Research and Technology, 2002, 215, 538-541.	3.3	9
76	A New Approach for the Electrochemical Detection of Phenolic Compounds. Part I: Modification of Graphite Surface by Plasma Polymerization Technique and Characterization by Raman Spectroscopy. Food and Bioprocess Technology, 2010, 3, 473-479.	4.7	9
77	Acquired methemoglobinemia in infants. Turkish Journal of Haematology, 2011, 28, 131-134.	0.5	9
78	Quartz tuning fork as a mass sensitive biosensor platform with a bi-layer film modification via plasma polymerization. MRS Communications, 2019, 9, 710-718.	1.8	9
79	Improvement in antimicrobial properties of titanium by diethyl phosphite plasma-based surface modification. Materials Today Communications, 2020, 25, 101565.	1.9	9
80	Modification of Quartz Crystal Microbalance Surfaces via Electrospun Nanofibers Intended for Biosensor Applications. Nanoscience and Nanotechnology Letters, 2013, 5, 444-451.	0.4	9
81	Preparation of polyethyleneglycol (PEG) coatings for microencapsulation of charcoal. Applied Biochemistry and Biotechnology, 1984, 10, 183-192.	2.9	8
82	A kinetic approach to oxidase based enzyme electrodes: the effect of enzyme layer formation on the response time. Biochemical Engineering Journal, 1998, 1, 39-43.	3.6	8
83	Plasma Modified Membrane for Daily Recovery of Oil from Repeated Frying Operation with Frequent Oil Replenishment. JAOCS, Journal of the American Oil Chemists' Society, 2013, 90, 1653-1659.	1.9	8
84	Mixed monolayer decorated SPR sensing surface for thrombin detection. Journal of Pharmaceutical and Biomedical Analysis, 2019, 176, 112822.	2.8	8
85	Early neonatal outcomes of very-low-birth-weight infants in Turkey: A prospective multicenter study of the Turkish Neonatal Society. PLoS ONE, 2019, 14, e0226679.	2.5	8
86	Development of mass sensitive sensor platform based on plasma polymerization technique: Quartz tuning fork as transducer. Applied Surface Science, 2021, 540, 148360.	6.1	8
87	Kinetics of invertase immobilised on poly(phe-lys) coated polystyrene beads. Biotechnology Letters, 1996, 10, 71-76.	0.5	7
88	Mass transfer through meat. Part I. Determination of diffusion coefficient of nitrite by time lag method. Journal of Food Engineering, 2005, 67, 387-391.	5.2	7
89	Deep neck abscess in neonatal period: Case report and review of literature. International Journal of Pediatric Otorhinolaryngology, 2014, 78, 577-582.	1.0	7
90	Stiffness Variability in Jamming of Compliant Granules and a Case Study Application in Climbing Vertical Shafts. , 2018, , .		7

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91	Determination of kinetic parameters of pectolytic enzymes at low pectin concentrations by a simple method. European Food Research and Technology, 2003, 217, 39-42.	3.3	6
92	Mediastinal Lipoblastoma Causing Diaphragmatic Eventration. Journal of Pediatric Hematology/Oncology, 2009, 31, 346-348.	0.6	6
93	Effects of lactobacillus rhamnosus gg as a probiotic on neonatal hyperbilirubinemia. Turkish Journal of Pediatrics, 2018, 60, 482.	0.6	6
94	Evaluation of 99mTc labelled monodisperse polystyrene/polyacrylate latex particles for the study of colon transit and morphology. International Journal of Radiation Applications and Instrumentation Part B, Nuclear Medicine and Biology, 1991, 18, 253-258.	0.3	5
95	Development of QTF-based mass-sensitive immunosensor for phenylketonuria diagnosis. Applied Physics A: Materials Science and Processing, 2022, 128, .	2.3	5
96	Measurement of glucose, sucrose and lactose in food samples with enzyme-immobilised packed-bed column reactors integrated to an amperometric enzyme electrode. Molecular Nutrition and Food Research, 2002, 46, 174.	0.0	4
97	Improvement of Interfacial Adhesion of Glass Fiber/Epoxy Composite by Using Plasma Polymerized Glass Fibers. Journal of Adhesion, 2010, 86, 915-938.	3.0	4
98	Active stabilization of a stiff quadruped robot using local feedback. , 2017, , .		4
99	Prevention of Candida biofilm formation over polystyrene by plasma polymerization technique. MRS Communications, 2020, 10, 667-673.	1.8	4
100	ARC syndrome. Turkish Journal of Pediatrics, 2017, 59, 487-490.	0.6	4
101	Prognostic value of time of diagnosis in childhood acute lymphoblastic leukemia. Turkish Journal of Haematology, 2012, 29, 188-190.	0.5	3
102	Nanofabrication and plasma polymerization assisted surface modification of a transducer based on localized surface plasmon resonance of gold nanostructure arrays for biosensor applications. Journal of Nanophotonics, 2012, 6, 061602.	1.0	3
103	A comparative evaluation of adaptive and non-adaptive Sliding Mode, LQR & PID control for platform stabilization. , 2012, , .		3
104	A real-time inertial motion blur metric: Application to frame triggering based motion blur minimization. , 2014, , .		3
105	Natural user interface for lighting control: Case study on desktop lighting using modular robots. , 2016, , .		3
106	The effect of delivery type on uncoupling protein-2 levels. Journal of Maternal-Fetal and Neonatal Medicine, 2016, 29, 2940-2943.	1.5	3
107	Controlled drug release performance of plasma modified slab and mat matrices: A model study with â€œAmpicillinâ€• International Journal of Pharmaceutics, 2020, 587, 119586.	5.2	3
108	Basic Principles of Optical Biosensors in Food Engineering. Contemporary Food Engineering, 2010, , 53-70.	0.2	3

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109	A new approach to modelling enzyme kinetics by a novel enzyme from Onopordum turcicum and powdered calf rennet. The Chemical Engineering Journal and the Biochemical Engineering Journal, 1994, 56, B87-B90.	0.1	2
110	Cornelia de Lange syndrome associated with thoracic meningocele. Clinical Dysmorphology, 2010, 19, 161-163.	0.3	2
111	Predictive values of Ischemia modified albumin in neonatal sepsis. Turkish Journal of Biochemistry, 2017, 42, 245-250.	0.5	2
112	Self-reconfigurable modular robot interface using virtual reality: Arrangement of furniture made out of roombots modules. , 2017, , .		2
113	Single-step amphoteric surface modification through plasma polymerization: Antifouling coating for titanium substrate. MRS Communications, 2021, 11, 523-531.	1.8	2
114	A Turner syndrome case associated with anal atresia, interrupted aortic arch and multicystic dysplastic kidney. Turkish Journal of Pediatrics, 2010, 52, 215-7.	0.6	2
115	Comparison of Dynamic Behavior of C18 HPLC Columns by Stimulus-Response Analysis. I. Determination of Peclet Numbers. Journal of Liquid Chromatography and Related Technologies, 1995, 18, 1747-1755.	1.0	1
116	Methemoglobinemia associated with Staphylococcus aureus sepsis in a newborn. Journal of Neonatal-Perinatal Medicine, 2010, 3, 63-65.	0.8	1
117	Preparation of superhydrophobic membranes by HMDSO plasma modified electrospun nanofibers. Journal of Biotechnology, 2012, 161, 44.	3.8	1
118	Plasma Polymerization Modified Polyvinylidene Fluoride (PVDF) Membrane Development and Characterization for Degumming of Soybean Oil. JAOCS, Journal of the American Oil Chemists' Society, 2014, 91, 1813-1822.	1.9	1
119	High performance mass sensitive immunosensor for ochratoxin a detection. Journal of Biotechnology, 2015, 208, S16-S17.	3.8	1
120	Coaxial electrospun PCL/PVA-chitosan nanofibers: A novel non-viral gene delivery scaffold. , 2015, , .		1
121	Playdough to Roombots: Towards a Novel Tangible User Interface for Self-reconfigurable Modular Robots. , 2018, , .		1
122	Plasma Polymerized Films for Mass Sensitive Biosensors. Natural and Applied Sciences Journal, 2019, 2, 1-7.	0.2	1
123	Dynamic Behaviour of C₁₈ HPLC Columns by Stimulus-Response Analysis Part II: Determination of Dispersion Coefficients Via Peclet Numbers. Journal of Liquid Chromatography and Related Technologies, 1996, 19, 3193-3199.	1.0	0
124	Amperometric Biosensors in Food Processing, Safety, and Quality Control. Contemporary Food Engineering, 2010, , 1-51.	0.2	0
125	Developing a Transducer Based on Localized Surface Plasmon Resonance (LSPR) of Gold Nanostructures for Nanobiosensor Applications. Key Engineering Materials, 2013, 543, 393-401.	0.4	0
126	A real-time inertial motion blur metric. , 2014, , .		0

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127	Medical Treatment of Hematuria Due to Bladder Hemangioma in a Newborn. Indian Journal of Pediatrics, 2018, 85, 396-397.	0.8	0
128	Optimization Packed Bed Column Reactor Parameters for Enzymatic Hydrolyzing of Lactose. DÃ¼zce Ãœniversitesi Bilim Ve Teknoloji Dergisi, 0, , 1382-1394.	0.7	0
129	Antenatal bartter syndrome caused by a novel homozygous mutation in SLC12A1 Gene. Indian Journal of Nephrology, 2019, 29, 360.	0.5	0