

Syed A M Tofail

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154
papers

3,584
citations

31
h-index

54
g-index

161
ext. papers

4,537
ext. citations

6.1
avg, IF

5.8
L-index

#	Paper	IF	Citations
154	Additive manufacturing: scientific and technological challenges, market uptake and opportunities. <i>Materials Today</i> , 2018 , 21, 22-37	21.8	726
153	Nanosystems: the use of nanoalloys, metallic, bimetallic, and magnetic nanoparticles in biomedical applications. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 27981-95	3.6	136
152	Nanoparticles in biomedical applications. <i>Advances in Physics: X</i> , 2017 , 2, 54-88	5.1	135
151	Structure and stability of hydroxyapatite: Density functional calculation and Rietveld analysis. <i>Physical Review B</i> , 2005 , 71,	3.3	118
150	Control of piezoelectricity in amino acids by supramolecular packing. <i>Nature Materials</i> , 2018 , 17, 180-186	6.7	118
149	Ferroelectric polarization in nanocrystalline hydroxyapatite thin films on silicon. <i>Scientific Reports</i> , 2013 , 3, 2215	4.9	88
148	A novel study of hexavalent chromium detoxification by selected seaweed species using SEM-EDX and XPS analysis. <i>Chemical Engineering Journal</i> , 2009 , 148, 425-433	14.7	73
147	A facile aqueous sol-gel method for high surface area nanocrystalline CeO ₂ . <i>RSC Advances</i> , 2011 , 1, 1794	3.7	70
146	Multimodal Superparamagnetic Nanoparticles with Unusually Enhanced Specific Absorption Rate for Synergetic Cancer Therapeutics and Magnetic Resonance Imaging. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 14656-64	9.5	61
145	Structural Order and Dielectric Behaviour of Hydroxyapatite. <i>Ferroelectrics</i> , 2005 , 319, 117-123	0.6	59
144	Pyroelectric, piezoelectric, and photoeffects in hydroxyapatite thin films on silicon. <i>Applied Physics Letters</i> , 2011 , 98, 123703	3.4	58
143	Organic piezoelectric materials: milestones and potential. <i>NPG Asia Materials</i> , 2019 , 11,	10.3	57
142	Piezoelectricity in Poled Hydroxyapatite Ceramics. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 2867-2872	3.8	55
141	Direct and ultrasonic measurements of macroscopic piezoelectricity in sintered hydroxyapatite. <i>Journal of Applied Physics</i> , 2009 , 105, 064103	2.5	55
140	Substrate topography: A valuable in vitro tool, but a clinical red herring for in vivo tenogenesis. <i>Acta Biomaterialia</i> , 2015 , 27, 3-12	10.8	52
139	Superparamagnetic iron oxide nanocargoes for combined cancer thermotherapy and MRI applications. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 21331-9	3.6	47
138	Surface characterisation of electrografted random poly[carbazole-co-3-methylthiophene] copolymers on carbon fiber: XPS, AFM and Raman spectroscopy. <i>Applied Surface Science</i> , 2004 , 222, 148-165	6.7	47

137	Electrically Polarized Biomaterials. <i>Advanced Materials</i> , 2016 , 28, 5470-84	24	44
136	Piezoelectric Tensor of Collagen Fibrils Determined at the Nanoscale. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 929-935	5.5	42
135	Bioinspired Stable and Photoluminescent Assemblies for Power Generation. <i>Advanced Materials</i> , 2019 , 31, e1807481	24	41
134	Effective Cancer Theranostics with Polymer Encapsulated Superparamagnetic Nanoparticles: Combined Effects of Magnetic Hyperthermia and Controlled Drug Release. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 1332-1340	5.5	41
133	In situ photoexcitation of silver-doped titania nanopowders for activity against bacteria and yeasts. <i>Journal of Colloid and Interface Science</i> , 2011 , 362, 50-7	9.3	41
132	Electrochemical nucleation of gold nanoparticles in a polymer film at a liquid-liquid interface. <i>Langmuir</i> , 2005 , 21, 1001-8	4	36
131	Superparamagnetic Gadolinium Ferrite Nanoparticles with Controllable Curie Temperature □ Cancer Theranostics for MR-Imaging-Guided Magneto-Chemotherapy. <i>European Journal of Inorganic Chemistry</i> , 2016 , 2016, 4586-4597	2.3	35
130	Unravelling the specific site preference in doping of calcium hydroxyapatite with strontium from ab initio investigations and Rietveld analyses. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 3435-43	3.6	35
129	Multi-modal MR imaging and magnetic hyperthermia study of Gd doped Fe ₃ O ₄ nanoparticles for integrative cancer therapy. <i>RSC Advances</i> , 2016 , 6, 94967-94975	3.7	35
128	Effects of Polydopamine Functionalization on Boron Nitride Nanotube Dispersion and Cytocompatibility. <i>Bioconjugate Chemistry</i> , 2015 , 26, 2025-37	6.3	32
127	Bioactive silica-based drug delivery systems containing doxorubicin hydrochloride: in vitro studies. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012 , 93, 249-59	6	32
126	The insurability of nanomaterial production risk. <i>Nature Nanotechnology</i> , 2013 , 8, 222-4	28.7	32
125	Physically stimulated nanotheranostics for next generation cancer therapy: Focus on magnetic and light stimulations. <i>Applied Physics Reviews</i> , 2019 , 6, 041306	17.3	31
124	Theoretical Optimization of Pore Size and Chemistry in SIFSIX-3-M Hybrid Ultramicroporous Materials. <i>Crystal Growth and Design</i> , 2016 , 16, 3890-3897	3.5	29
123	The effect of annealing on the mechanical properties and microstructural evolution of Ti-rich NiTi shape memory alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 662, 564-577	5.3	28
122	Racemic Amino Acid Piezoelectric Transducer. <i>Physical Review Letters</i> , 2019 , 122, 047701	7.4	27
121	A Tractable Method for Measuring Nanomaterial Risk Using Bayesian Networks. <i>Nanoscale Research Letters</i> , 2016 , 11, 503	5	26
120	Biocidal effect and durability of nano-TiO ₂ coated textiles to combat hospital acquired infections. <i>RSC Advances</i> , 2014 , 4, 19945	3.7	26

119	Progress in Remotely Triggered Hybrid Nanostructures for Next-Generation Brain Cancer Theranostics. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 2669-2687	5.5	25
118	Effect of different stages of deformation on the microstructure evolution of Ti-rich NiTi shape memory alloy. <i>Materials Characterization</i> , 2017 , 125, 51-66	3.9	24
117	Hollow-fiber flow field-flow fractionation and multi-angle light scattering investigation of the size, shape and metal-release of silver nanoparticles in aqueous medium for nano-risk assessment. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015 , 106, 92-9	3.5	24
116	The direct piezoelectric effect in the globular protein lysozyme. <i>Applied Physics Letters</i> , 2017 , 111, 142902	3.4	23
115	Viscoelastic braided stent: Finite element modelling and validation of crimping behaviour. <i>Materials and Design</i> , 2017 , 121, 143-153	8.1	22
114	Functional TiO nanocoral architecture for light-activated cancer chemotherapy. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 1461-1470	7.3	21
113	High-resolution quantitative determination of dielectric function by using scattering scanning near-field optical microscopy. <i>Scientific Reports</i> , 2015 , 5, 11876	4.9	21
112	A framework for far-field infrared absorption microscopy beyond the diffraction limit. <i>Optics Express</i> , 2012 , 20, 29694-704	3.3	21
111	Accelerated charge transfer in water-layered peptide assemblies. <i>Energy and Environmental Science</i> , 2020 , 13, 96-101	35.4	21
110	Deconstructing collagen piezoelectricity using alanine-hydroxyproline-glycine building blocks. <i>Nanoscale</i> , 2018 , 10, 9653-9663	7.7	20
109	Patterned nanostructured arrays for high-density magnetic recording. <i>Applied Organometallic Chemistry</i> , 2001 , 15, 373-382	3.1	20
108	The Role of Texturing and Densification on Optical Transmittance of Hydroxyapatite Ceramics. <i>Journal of the American Ceramic Society</i> , 2010 , 93, 3773-3777	3.8	19
107	Effect of annealing on hydrophobic stability of plasma deposited fluoropolymer coatings. <i>Polymer Degradation and Stability</i> , 2008 , 93, 2119-2126	4.7	19
106	Impact and effectiveness of risk mitigation strategies on the insurability of nanomaterial production: evidences from industrial case studies. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2015 , 7, 839-55	9.2	18
105	Charge specific protein placement at submicrometer and nanometer scale by direct modification of surface potential by electron beam. <i>Langmuir</i> , 2011 , 27, 14968-74	4	18
104	The atomic level structure of the TiO(2)-NiTi interface. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 9742-50	3.6	18
103	Competitive Sorption of Antimony with Zinc, Nickel, and Aluminum in a Seaweed Based Fixed-bed Sorption Column. <i>Clean - Soil, Air, Water</i> , 2009 , 37, 712-719	1.6	18
102	Diphenylalanine-Derivative Peptide Assemblies with Increased Aromaticity Exhibit Metal-like Rigidity and High Piezoelectricity. <i>ACS Nano</i> , 2020 , 14, 7025-7037	16.7	18

101	Tunable Mechanical and Optoelectronic Properties of Organic Cocrystals by Unexpected Stacking Transformation from H- to J- and X-Aggregation. <i>ACS Nano</i> , 2020 , 14, 10704-10715	16.7	18
100	Reassigning the most stable surface of hydroxyapatite to the water resistant hydroxyl terminated (010) surface. <i>Surface Science</i> , 2014 , 623, 55-63	1.8	17
99	Rheological Issues in Carbon-Based Inks for Additive Manufacturing. <i>Micromachines</i> , 2019 , 10,	3.3	16
98	Far-Field Subdiffraction Imaging of Semiconductors Using Nonlinear Transient Absorption Differential Microscopy. <i>ACS Photonics</i> , 2016 , 3, 478-485	6.3	16
97	Longitudinal Piezoelectricity in Orthorhombic Amino Acid Crystal Films. <i>Crystal Growth and Design</i> , 2018 , 18, 4844-4848	3.5	16
96	Improved aging performance of vapor phase deposited hydrophobic self-assembled monolayers. <i>Applied Surface Science</i> , 2011 , 257, 4331-4338	6.7	16
95	Effect of Annealing on Improved Hydrophobicity of Vapor Phase Deposited Self-Assembled Monolayers. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 14934-14942	3.8	16
94	Looped ends versus open ends braided stent: A comparison of the mechanical behaviour using analytical and numerical methods. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017 , 75, 581-591	4.1	14
93	MRI Guided Magneto-chemotherapy with High-Magnetic-Moment Iron Oxide Nanoparticles for Cancer Theranostics.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 2305-2313	4.1	14
92	High resolution imaging with differential infrared absorption micro-spectroscopy. <i>Optics Express</i> , 2013 , 21, 25632-42	3.3	14
91	Comprehensive approach of hybrid nanoplatforms in drug delivery and theranostics to combat cancer. <i>Drug Discovery Today</i> , 2020 , 25, 1245-1252	8.8	13
90	Study of the microstructure evolution of heat treated Ti-rich NiTi shape memory alloy. <i>Materials Characterization</i> , 2016 , 112, 11-19	3.9	13
89	Anticipatory Ethics and Governance (AEG): Towards a Future Care Orientation Around Nanotechnology. <i>NanoEthics</i> , 2015 , 9, 123-136	1	13
88	Multiple approach to test nano TiO ₂ photo-activity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014 , 292, 26-33	4.7	12
87	Direct creation of microdomains with positive and negative surface potential on hydroxyapatite coatings. <i>Applied Physics Letters</i> , 2011 , 98, 113701	3.4	12
86	Characterisation of nanosize thin films of electrografted N-vinylcarbazole copolymers (P[NVCz β -VBSA] and P[NVCz β -3-MeTh]) onto carbon fibre. <i>Applied Surface Science</i> , 2005 , 243, 183-198	6.7	12
85	Experimental study on dieless drawing of Nickel-Titanium alloy. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012 , 8, 8-20	4.1	11
84	First principles simulations of elastic properties of radiopaque NiTiPt. <i>Journal of Alloys and Compounds</i> , 2015 , 630, 54-59	5.7	11

83	Molecular engineering of piezoelectricity in collagen-mimicking peptide assemblies. <i>Nature Communications</i> , 2021 , 12, 2634	17.4	11
82	Boron Nitride Nanotube Addition Enhances the Crystallinity and Cytocompatibility of PVDF-TrFE. <i>Frontiers in Chemistry</i> , 2019 , 7, 364	5	10
81	Engineered nanomaterials: risk perception, regulation and insurance. <i>Journal of Risk Research</i> , 2016 , 19, 444-460	4.2	10
80	Photoactivated titania-based nanomaterials for potential application as cardiovascular stent coatings. <i>Biocybernetics and Biomedical Engineering</i> , 2014 , 34, 189-197	5.7	10
79	Morphological and spectroscopic analyses of poly[N-vinylcarbazole-co-vinylbenzenesulfonic acid] copolymer electrografted on carbon fiber: the effect of current density. <i>Applied Surface Science</i> , 2004 , 229, 13-18	6.7	10
78	Thickness and pore size dependence of coercivity for nanonetwork of iron produced by template synthesis. <i>Journal of Applied Physics</i> , 2002 , 91, 7998	2.5	9
77	In Situ, Real-Time Infrared (IR) Imaging for Metrology in Advanced Manufacturing. <i>Advanced Engineering Materials</i> , 2018 , 20, 1800061	3.5	9
76	Pyroelectricity in globular protein lysozyme films. <i>Journal of Applied Physics</i> , 2018 , 123, 124701	2.5	8
75	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2018 , 25, 803-807	2.3	8
74	Surface charge and carbon contamination on an electron-beam-irradiated hydroxyapatite thin film investigated by photoluminescence and phase imaging in atomic force microscopy. <i>Microscopy and Microanalysis</i> , 2014 , 20, 586-95	0.5	8
73	Directly created electrostatic micro-domains on hydroxyapatite: probing with a Kelvin Force probe and a protein. <i>Journal of Materials Science: Materials in Medicine</i> , 2012 , 23, 47-50	4.5	8
72	The impact of heat treatment on interactions of contact-poled biphasic calcium phosphates with proteins and cells. <i>Acta Biomaterialia</i> , 2012 , 8, 3468-77	10.8	8
71	Production of Nitinol Wire from Elemental Nickel and Titanium Powders Through Spark Plasma Sintering and Extrusion. <i>Journal of Materials Engineering and Performance</i> , 2011 , 20, 757-761	1.6	8
70	Nanoscale characterization of carbazole-indole copolymers modified carbon fiber surfaces. <i>Journal of Nanoscience and Nanotechnology</i> , 2005 , 5, 1677-82	1.3	8
69	Bevel angle study of flexible hollow needle insertion into biological mimetic soft-gel: Simulation and experimental validation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 111, 103896	4.1	8
68	Atomistic-Benchmarking towards a protocol development for rapid quantitative metrology of piezoelectric biomolecular materials. <i>Applied Materials Today</i> , 2020 , 21, 100818	6.6	8
67	Pathway Complexity in Supramolecular Porphyrin Self-Assembly at an Immiscible Liquid-Liquid Interface. <i>Journal of the American Chemical Society</i> , 2021 , 143, 9060-9069	16.4	8
66	Photo-responsive functional gold nanocapsules for inactivation of community-acquired, highly virulent, multidrug-resistant MRSA. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 846-856	7.3	8

65	Empowering citizens in international governance of nanotechnologies. <i>Journal of Nanoparticle Research</i> , 2015 , 17, 215	2.3	7
64	THIN NiTi WIRES WITH REDUCED THERMAL HYSTERESIS FOR SHAPE MEMORY ACTUATORS. <i>Functional Materials Letters</i> , 2012 , 05, 1250009	1.2	7
63	Thermal effects of mobile phones on human auricle region. <i>Journal of Thermal Biology</i> , 2019 , 79, 56-68	2.9	7
62	A Self-Powered Piezo-Bioelectric Device Regulates Tendon Repair-Associated Signaling Pathways through Modulation of Mechanosensitive Ion Channels. <i>Advanced Materials</i> , 2021 , 33, e2008788	24	7
61	Multilayered polyelectrolyte microcapsules: interaction with the enzyme cytochrome C oxidase. <i>PLoS ONE</i> , 2014 , 9, e112192	3.7	6
60	Nanoconfined water governs polarization-related properties of self-assembled peptide nanotubes. <i>Nano Select</i> , 2021 , 2, 817-829	3.1	6
59	Silica modification of titania nanoparticles enhances photocatalytic production of reactive oxygen species without increasing toxicity potential .. <i>RSC Advances</i> , 2018 , 8, 40369-40377	3.7	6
58	Spectral drifts in surface textured FeO-Au, core-shell nanoparticles enhance spectra-selective photothermal heating and scatter imaging. <i>Nanoscale</i> , 2020 , 12, 12632-12638	7.7	5
57	Piezoelectricity in the Intervertebral disc. <i>Journal of Biomechanics</i> , 2020 , 102, 109622	2.9	5
56	Converse piezoelectricity and ferroelectricity in crystals of lysozyme protein revealed by piezoresponse force microscopy. <i>Ferroelectrics</i> , 2018 , 525, 135-145	0.6	5
55	Physiological Role of Piezoelectricity in Biological Building Blocks 2016 , 237-251		5
54	Mapping electron-beam-injected trapped charge with scattering scanning near-field optical microscopy. <i>Optics Letters</i> , 2016 , 41, 1046-9	3	5
53	X-ray analyses of thermally grown and reactively sputtered tantalum oxide films on NiTi alloy. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2012 , 284, 49-52	1.2	5
52	Spatial-domain filter enhanced subtraction microscopy and application to mid-IR imaging. <i>Optics Express</i> , 2017 , 25, 13145-13152	3.3	5
51	Processing of Small Scale Nitinol Billets by Induction Heated Nonconventional Isothermal Extrusion (IHNCIE). <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2011 , 133,	1.8	5
50	Implementation of artificial intelligence and non-contact infrared thermography for prediction and personalized automatic identification of different stages of cellulite. <i>EPMA Journal</i> , 2020 , 11, 17-29	8.8	5
49	Piezoelectricity in screen-printed hydroxyapatite thick films. <i>Ferroelectrics</i> , 2017 , 509, 99-104	0.6	4
48	The Effects of a Varied Gold Shell Thickness on Iron Oxide Nanoparticle Cores in Magnetic Manipulation, T and T MRI Contrasting, and Magnetic Hyperthermia. <i>Nanomaterials</i> , 2020 , 10,	5.4	4

47	The effect of water molecules on elastic and piezoelectric properties of diphenylalanine microtubes. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2020 , 27, 1474-1477	2.3	4
46	Determination of thermal and thermomechanical properties of biodegradable PLA blends: for additive manufacturing process. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 142, 715-722	4.1	4
45	Static magnetic susceptibility of radiopaque NiTiPt and NiTiEr. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 452, 451-457	2.8	4
44	Radiopaque Shape Memory Alloys: NiTiEr with Stable Superelasticity. <i>Shape Memory and Superelasticity</i> , 2016 , 2, 196-203	2.8	4
43	Label free detection of specific protein binding using a microwave sensor. <i>Analyst, The</i> , 2014 , 139, 5335-8		4
42	Surface potential patterning of hydroxyapatite films by focused electron beam: Influence of the electron energy. <i>Applied Surface Science</i> , 2013 , 269, 184-187	6.7	4
41	Pyroelectricity in Biological Materials and Biomaterials: A Five Decades Long Journey. <i>Ferroelectrics</i> , 2014 , 472, 11-18	0.6	4
40	Spectroscopic and topographic characterization of the effect of monomer feed ratio in electrocopolymerization of N-vinylcarbazole-co-3-methylthiophene on carbon fiber. <i>Journal of Materials Science</i> , 2004 , 39, 2945-2950	4.3	4
39	Influence of Nanoporosity and Roughness on the Thickness-Dependent Coercivity of Iron Nanonetworks. <i>Monatshefte für Chemie</i> , 2002 , 133, 859-872	1.4	4
38	APTES Duality and Nanopore Seed Regulation in Homogeneous and Nanoscale-Controlled Reduction of Ag Shell on SiO ₂ Microparticle for Quantifiable Single Particle SERS. <i>ACS Omega</i> , 2018 , 3, 13028-13035	3.9	4
37	Electric field DC conductivity dependency of polyimide films. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2020 , 27, 1440-1445	2.3	3
36	Quantitative Polarization-Resolved Second-Harmonic-Generation Microscopy of Glycine Microneedles. <i>Advanced Materials</i> , 2020 , 32, e2002873	24	3
35	Characterisation and Manipulation of Polarisation Response in Plasmonic and Magneto-Plasmonic Nanostructures and Metamaterials. <i>Symmetry</i> , 2020 , 12, 1365	2.7	3
34	A Piezoelectric Ionic Cocystal of Glycine and Sulfamic Acid. <i>Crystal Growth and Design</i> , 2021 , 21, 5818-5827	3.7	3
33	MIR imaging bundles of ordered silver halide polycrystalline fibres for thermal transmission and imaging. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 142, 245-253	4.1	2
32	Detection of Protein Adsorption on Hydroxyapatite Using Electromagnetic Sensors 2016 , 269-278		2
31	Image-Based Tracking of Anticancer Drug-Loaded Nanoengineered Polyelectrolyte Capsules in Cellular Environments Using a Fast Benchtop Mid-Infrared (MIR) Microscope. <i>ACS Omega</i> , 2018 , 3, 6143-6150	3.9	2
30	Data on in vitro and in vivo cell orientation on substrates with different topographies. <i>Data in Brief</i> , 2015 , 5, 379-82	1.2	2

29	On the preparation and characterization of thin NiTi shape memory alloy wires for MEMS. <i>Frattura Ed Integrita Strutturale</i> , 2013 , 7, 7-12	0.9	2
28	High temperature induced pyroelectricity in screen-printed Hydroxyapatite thick films 2011 ,		2
27	Piezoresponse force microscopy and electron backscattering diffraction of 90° ferroelectric twins in BaTiO ₃ positive temperature co-efficient thermistors. <i>Ferroelectrics</i> , 2020 , 559, 109-119	0.6	1
26	Intracoronary Application of TiO ₂ -Coated Cardiovascular Stents 2016 , 279-296		1
25	Electro-bio-chemical Investigation by Integrated Hybrid Nanoscopes 2016 , 529-542		1
24	Electrically Mediated Interactions at the Materials/Biology Interface 2016 , 1-18		1
23	Label-free multimodal coherent anti-Stokes Raman scattering analysis of microparticles in unconstrained microfluidics. <i>Applied Optics</i> , 2018 , 57, E32-E36	1.7	1
22	Hydroxyapatite surface charge investigated by scanning probe microscopy 2014 ,		1
21	Piezoelectricity in the proteinogenic amino acid L-leucine: A novel piezoactive bioelectret. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2020 , 27, 1465-1468	2.3	1
20	Piezo and pyroelectricity in spark plasma sintered potassium sodium niobate (KNN) ceramics. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2020 , 27, 1428-1432	2.3	1
19	Piezoelectricity of the Transmembrane Protein ba3 Cytochrome c Oxidase. <i>Advanced Functional Materials</i> , 2021 , 31, 2100884	15.6	1
18	A practical approach for standardization of converse piezoelectric constants obtained from piezoresponse force microscopy. <i>Journal of Applied Physics</i> , 2021 , 129, 185104	2.5	1
17	Amorphous interface oxide formed due to high amount of Sm doping (50 mol%) stabilizes finer size anatase and lowers indirect band gap. <i>Applied Surface Science</i> , 2020 , 529, 146967	6.7	0
16	Polarisation changes in guided infrared thermography using silver halide poly-crystalline mid-infrared fibre bundle. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 142, 1115-1122	4.1	0
15	Modulating vectored non-covalent interactions for layered assembly with engineerable properties. <i>Bio-Design and Manufacturing</i> , 1	4.7	0
14	Investigation of reconstructed three-dimensional active infrared thermography of buried defects: multiphysics finite elements modelling investigation with initial experimental validation. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 142, 473-481	4.1	
13	Nanoscale topography, surface charge variation and defect correlation in 28 nm thick functional alumina films. <i>Applied Surface Science</i> , 2020 , 528, 146950	6.7	
12	Washable, Photosterilisable Antimicrobial Textiles 2016 , 317-332		

- 11 Antimicrobial Air Filters **2016**, 349-364
- 10 Interaction of Bone Proteins and Cells with Electrostatic Domains on Hydroxyapatite Films **2016**, 405-416
- 9 Label Free Infrared Nanoscopy: Impact on Biology and Medical Devices **2016**, 451-471
- 8 A Self-Powered Piezo-Bioelectric Device Regulates Tendon Repair-Associated Signaling Pathways through Modulation of Mechanosensitive Ion Channels (Adv. Mater. 40/2021). *Advanced Materials*, **2021**, 33, 2170315 24
- 7 Surface Texturing Design to Enhance Echogenicity of Biopsy Needles During Endoscopic Ultrasound Imaging. *Ultrasound in Medicine and Biology*, **2020**, 46, 2453-2463 3-5
- 6 Free standing tapes of donor doped BaTiO₃ for multilayer positive temperature coefficient thermistors. *IEEE Transactions on Dielectrics and Electrical Insulation*, **2020**, 27, 1650-1655 2-3
- 5 Electrets and related phenomena. *IEEE Transactions on Dielectrics and Electrical Insulation*, **2020**, 27, 1377-1378 3-378
- 4 Free standing tapes of donor doped BaTiO₃ for multilayer positive temperature coefficient thermistors. *IEEE Transactions on Dielectrics and Electrical Insulation*, **2020**, 27, 1650-1655 2-3
- 3 Low Temperature Poling and Piezoelectric Behaviour in Calcium Phosphates **2016**, 135-147
- 2 Ferroelectricity in Synthetic Biomaterials: Hydroxyapatite and Polypeptides **2016**, 149-166
- 1 Predictive Modeling of Ceramic Materials **2021**, 475-480