

# Mohammed Es-Souni

## List of Publications by Citations

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51  
papers

1,238  
citations

16  
h-index

34  
g-index

53  
ext. papers

1,365  
ext. citations

6.1  
avg, IF

4.58  
L-index

#	Paper	IF	Citations
51	Assessing the biocompatibility of NiTi shape memory alloys used for medical applications. <i>Analytical and Bioanalytical Chemistry</i> , <b>2005</b> , 381, 557-67	4.4	252
50	Structural and functional properties of screen-printed PZT/PVDF-TrFE composites. <i>Sensors and Actuators A: Physical</i> , <b>2008</b> , 143, 329-334	3.9	106
49	On the properties of two binary NiTi shape memory alloys. Effects of surface finish on the corrosion behaviour and in vitro biocompatibility. <i>Biomaterials</i> , <b>2002</b> , 23, 2887-94	15.6	91
48	Morphology and property control of NiO nanostructures for supercapacitor applications. <i>Nanoscale Research Letters</i> , <b>2013</b> , 8, 363	5	84
47	On the transformation behaviour, mechanical properties and biocompatibility of two niti-based shape memory alloys: NiTi42 and NiTi42Cu7. <i>Biomaterials</i> , <b>2001</b> , 22, 2153-61	15.6	68
46	Brookite Formation in TiO <sub>2</sub> /Ag Nanocomposites and Visible-Light-Induced Templated Growth of Ag Nanostructures in TiO <sub>2</sub> . <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 377-385	15.6	58
45	On-substrate, self-standing Au-nanorod arrays showing morphology controlled properties. <i>Nano Today</i> , <b>2011</b> , 6, 12-19	17.9	53
44	Macro/meso-porous TiO <sub>2</sub> , ZnO and ZnO/TiO <sub>2</sub> -composite thick films. Properties and application to photocatalysis. <i>Catalysis Science and Technology</i> , <b>2012</b> , 2, 379-385	5.5	45
43	Correlation between structure, dielectric, and ferroelectric properties in BiFeO <sub>3</sub> /PbMnO <sub>3</sub> solid solution thin films. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 014111	2.5	44
42	Versatile Nanocomposite Coatings with Tunable Cell Adhesion and Bactericidity. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 3179-3188	15.6	43
41	Photodeposition of Au Nanoclusters for Enhanced Photocatalytic Dye Degradation over TiO Thin Film. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 14983-14992	9.5	32
40	Synthesis of silver nano-fir-twigs and application to single molecules detection. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 5215		27
39	On-substrate, self-standing hollow-wall Pt and PtRu-nanotubes and their electrocatalytic behavior. <i>Chemical Communications</i> , <b>2011</b> , 47, 6284-6	5.8	23
38	Substrate heterostructure effects on interface composition, microstructure development and functional properties of PZT thin films. <i>Acta Materialia</i> , <b>2009</b> , 57, 2328-2338	8.4	21
37	A versatile approach to processing of high active area pillar coral- and sponge-like Pt-nanostructures. Application to electrocatalysis. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 4182		20
36	Supported porous carbon and carbon/NT nanocomposites for supercapacitor applications. <i>Applied Physics A: Materials Science and Processing</i> , <b>2016</b> , 122, 1	2.6	17
35	Nanocomposite Films of Laponite/PEG-Grafted Polymers and Polymer Brushes with Nonfouling Properties. <i>Langmuir</i> , <b>2017</b> , 33, 6739-6750	4	16

34	Morphology control of 1D noble metal nano/heterostructures towards multi-functionality. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 8671		16
33	Self-standing corrugated Ag and Au-nanorods for plasmonic applications. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 6269		15
32	On the interaction of polyacrylic acid as a conditioning agent with bovine enamel. <i>Biomaterials</i> , <b>2002</b> , 23, 2871-8	15.6	15
31	In situ ZnO/PVA nanocomposite coated microfluidic chips for biosensing. <i>Applied Physics A: Materials Science and Processing</i> , <b>2014</b> , 115, 645-649	2.6	14
30	Ordered Nanomaterial Thin Films via Supported Anodized Alumina Templates. <i>Frontiers in Materials</i> , <b>2014</b> , 1,	4	14
29	On the in vitro biocompatibility of Elgiloy, a Co-based alloy, compared to two titanium alloys. <i>Journal of Orofacial Orthopedics</i> , <b>2003</b> , 64, 16-26	2.9	14
28	The influence of processing conditions on the morphology and thermochromic properties of vanadium oxide films. <i>Thin Solid Films</i> , <b>2014</b> , 556, 277-284	2.2	12
27	Nanostructured ZnO-TiO thin film oxide as anode material in electrooxidation of organic pollutants. Application to the removal of dye Amido black 10B from water. <i>Environmental Science and Pollution Research</i> , <b>2017</b> , 24, 1442-1449	5.1	12
26	Nanoscale phase separation in laponite/polypyrrole nanocomposites. Application to electrodes for energy storage. <i>RSC Advances</i> , <b>2015</b> , 5, 21550-21557	3.7	12
25	Thin film nanocarbon composites for supercapacitor applications. <i>Carbon</i> , <b>2017</b> , 115, 449-459	10.4	9
24	Novel approach to the processing of meso-macroporous thin films of graphite and in situ graphite/noble metal nanocomposites. <i>RSC Advances</i> , <b>2014</b> , 4, 17748-17752	3.7	9
23	A universal, template-free approach to porous oxide and polymer film processing. <i>RSC Advances</i> , <b>2011</b> , 1, 579	3.7	9
22	Sequence of structural transitions in BiFeO <sub>3</sub> /RMnO <sub>3</sub> thin films (R=Rare earth). <i>Ceramics International</i> , <b>2015</b> , 41, 5721-5726	5.1	8
21	Human gingival fibroblast response to electropolished NiTi surfaces. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2007</b> , 80, 159-66	5.4	8
20	Scratch resistant non-fouling surfaces via grafting non-fouling polymers on the pore walls of supported porous oxide structures. <i>Materials and Design</i> , <b>2019</b> , 163, 107542	8.1	8
19	Porous PtPd alloy nanotubes: towards high performance electrocatalysts with low Pt-loading. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 4355-4364	5.5	7
18	A template-free synthesis and structural characterization of hierarchically nano-structured lithium-titanium-oxide films. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 6632		6
17	Finite element analysis and EMA predictions of the dielectric and pyroelectric properties of 0-3 Pz59/PVDF-TrFE composites with experimental validation. <i>Sensors and Actuators A: Physical</i> , <b>2020</b> , 310, 112073	3.9	6

16	Modified nanocarbon surfaces for high performance supercapacitor and electrocatalysis applications. <i>Chemical Communications</i> , <b>2015</b> , 51, 13650-3	5.8	5
15	Nanomechanical characterization and modeling of anodized porous aluminum oxide thin films with photografted anti-biofouling polymer brushes on their pore walls. <i>Applied Nanoscience (Switzerland)</i> , <b>2020</b> , 10, 2139-2151	3.3	5
14	In situ processing of fluorinated carbon-lithium fluoride nanocomposites. <i>Materials and Design</i> , <b>2018</b> , 158, 106-112	8.1	5
13	Processing of nanotubes on NiTi-shape memory alloys and their modification with photografted anti-adhesive polymer brushes. Towards smart implant surfaces. <i>Materials and Design</i> , <b>2019</b> , 182, 108031-108037	8.1	5
12	Understanding and Shaping the Morphology of the Barrier Layer of Supported Porous Anodized Alumina on Gold Underlayers. <i>Langmuir</i> , <b>2016</b> , 32, 6985-90	4	4
11	Dielectric and pyroelectric properties of thick and thin film relaxor-ceramic/PVDF-TrFE composites. <i>Functional Composites and Structures</i> , <b>2019</b> , 1, 035005	3.5	4
10	Large Area Thick Films of PVDF-TrFE and Relaxor-Ceramics for Piezo- and Pyroelectric Applications. <i>Macromolecular Materials and Engineering</i> , <b>2019</b> , 304, 1900538	3.9	4
9	Data supporting polymerization of anti-fouling polymer brushes polymerized on the pore walls of porous aluminium and titanium oxides. <i>Data in Brief</i> , <b>2019</b> , 23, 103702	1.2	3
8	On-substrate fabrication of porous Al <sub>2</sub> O <sub>3</sub> templates with tunable pore diameters and interpore distances. <i>Applied Physics A: Materials Science and Processing</i> , <b>2016</b> , 122, 1	2.6	3
7	A non-fouling multilayer structure based on LAPONITE® /PEG-Brushes showing high stiffness and hardness. <i>Progress in Organic Coatings</i> , <b>2019</b> , 132, 108-115	4.8	2
6	Au-NR/VO <sub>2</sub> -NP nanocomposites supported on glass substrates: microstructure and optical properties. <i>CrystEngComm</i> , <b>2014</b> , 16, 3068-3071	3.3	2
5	Advanced Piezoelectrics: Materials, Devices, and Their Applications. <i>Smart Materials Research</i> , <b>2012</b> , 2012, 1-2		1
4	Noble metal NPs and nanoalloys by sonochemistry directly processed on nanocarbon and TiN substrates from aqueous solutions. <i>Ultrasonics Sonochemistry</i> , <b>2019</b> , 51, 138-144	8.9	1
3	Non-fouling polymer films on hard-anodized aluminum substrates: Nanomechanical properties and modelling. <i>Progress in Organic Coatings</i> , <b>2021</b> , 161, 106553	4.8	
2	Supported Binary and Ternary Nanoalloy Nanoparticle Catalysts-A Green Processing Approach using the Leidenfrost layer as Nanoreactor. <i>Nano Express</i> , <b>2021</b> , 2, 020013	2	
1	A TiN@Au-NR Plasmonic Structure with Tunable Surface Plasmon Resonance Depending on TiN to Au Thickness Ratio. <i>Plasmonics</i> , <b>2021</b> , 16, 49-57	2.4	