

# Mohammed Naffakh

## List of Publications by Year in descending order

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69  
papers

2,998  
citations

126708

33  
h-index

168136

53  
g-index

70  
all docs

70  
docs citations

70  
times ranked

2509  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-performance nanocomposites based on polyetherketones. <i>Progress in Materials Science</i> , 2012, 57, 1106-1190.	16.0	222
2	Development and characterization of PEEK/carbon nanotube composites. <i>Carbon</i> , 2009, 47, 3079-3090.	5.4	170
3	Opportunities and challenges in the use of inorganic fullerene-like nanoparticles to produce advanced polymer nanocomposites. <i>Progress in Polymer Science</i> , 2013, 38, 1163-1231.	11.8	154
4	Influence of carbon nanotubes on the thermal, electrical and mechanical properties of poly(ether) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	5.4	130
5	High performance PEEK/carbon nanotube composites compatibilized with polysulfones-II. Mechanical and electrical properties. <i>Carbon</i> , 2010, 48, 3500-3511.	5.4	114
6	Multiscale fiber-reinforced thermoplastic composites incorporating carbon nanotubes: A review. <i>Current Opinion in Solid State and Materials Science</i> , 2014, 18, 62-80.	5.6	90
7	High performance PEEK/carbon nanotube composites compatibilized with polysulfones-I. Structure and thermal properties. <i>Carbon</i> , 2010, 48, 3485-3499.	5.4	88
8	The influence of a compatibilizer on the thermal and dynamic mechanical properties of PEEK/carbon nanotube composites. <i>Nanotechnology</i> , 2009, 20, 315707.	1.3	87
9	Mechanical and electrical properties of carbon nanotube/poly(phenylene sulphide) composites incorporating polyetherimide and inorganic fullerene-like nanoparticles. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012, 43, 603-612.	3.8	83
10	Influence of inorganic fullerene-like WS <sub>2</sub> nanoparticles on the thermal behavior of isotactic polypropylene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007, 45, 2309-2321.	2.4	77
11	Solvent-Free Preparation of High-Toughness Epoxy~SWNT Composite Materials. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 1441-1450.	4.0	70
12	Novel Melt-Processable Poly(ether ether ketone)(PEEK)/Inorganic Fullerene-like WS <sub>2</sub> Nanoparticles for Critical Applications. <i>Journal of Physical Chemistry B</i> , 2010, 114, 11444-11453.	1.2	66
13	Grafting of an aminated poly(phenylene sulphide) derivative to functionalized single-walled carbon nanotubes. <i>Carbon</i> , 2012, 50, 857-868.	5.4	64
14	New hybrid nanocomposites containing carbon nanotubes, inorganic fullerene-like WS <sub>2</sub> nanoparticles and poly(ether ether ketone) (PEEK). <i>Journal of Materials Chemistry</i> , 2011, 21, 7425.	6.7	60
15	Rheological and Tribological Properties of Carbon Nanotube/Thermoplastic Nanocomposites Incorporating Inorganic Fullerene-Like WS <sub>2</sub> Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2012, 116, 7959-7969.	1.2	57
16	Use of Inorganic Fullerene-like WS <sub>2</sub> to Produce New High-Performance Polyphenylene Sulfide Nanocomposites: Role of the Nanoparticle Concentration. <i>Journal of Physical Chemistry B</i> , 2009, 113, 10104-10111.	1.2	54
17	Tuning the properties of carbon fiber-reinforced poly(phenylene sulphide) laminates via incorporation of inorganic nanoparticles. <i>Polymer</i> , 2012, 53, 2369-2378.	1.8	52
18	Enhancing the thermomechanical behaviour of poly(phenylene sulphide) based composites via incorporation of covalently grafted carbon nanotubes. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013, 54, 10-19.	3.8	51

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19	Study of a reactive epoxy-amine resin enabling in situ dissolution of thermoplastic films during resin transfer moulding for toughening composites. <i>Composites Science and Technology</i> , 2006, 66, 1376-1384.	3.8	49
20	Thermoplastic Polymer Nanocomposites Based on Inorganic Fullerene-like Nanoparticles and Inorganic Nanotubes. <i>Inorganics</i> , 2014, 2, 291-312.	1.2	49
21	Thermal decomposition of technological polymer blends 1. Poly(aryl ether ether ketone) with a thermotropic liquid crystalline polymer. <i>Polymer Degradation and Stability</i> , 1999, 66, 405-413.	2.7	47
22	Unique Isothermal Crystallization Behavior of Novel Polyphenylene Sulfide/Inorganic Fullerene-like WS <sub>2</sub> Nanocomposites. <i>Journal of Physical Chemistry B</i> , 2008, 112, 14819-14828.	1.2	47
23	Morphology and thermal properties of novel poly(phenylene sulfide) hybrid nanocomposites based on single-walled carbon nanotubes and inorganic fullerene-like WS <sub>2</sub> nanoparticles. <i>Journal of Materials Chemistry</i> , 2012, 22, 1418-1425.	6.7	45
24	Synthesis and characterization of nitrated and aminated poly(phenylene sulfide) derivatives for advanced applications. <i>Materials Chemistry and Physics</i> , 2012, 131, 605-614.	2.0	42
25	Unique Nucleation Activity of Inorganic Fullerene-like WS <sub>2</sub> Nanoparticles in Polyphenylene Sulfide Nanocomposites: Isokinetic and Isoconversional Study of Dynamic Crystallization Kinetics. <i>Journal of Physical Chemistry B</i> , 2009, 113, 7107-7115.	1.2	41
26	Flammability properties of PEEK and carbon nanotube composites. <i>Polymer Degradation and Stability</i> , 2012, 97, 2492-2502.	2.7	39
27	Polypropylene/Glass Fiber Hierarchical Composites Incorporating Inorganic Fullerene-like Nanoparticles for Advanced Technological Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 9691-9700.	4.0	39
28	Development of novel melt-processable biopolymer nanocomposites based on poly(L-lactic acid) and WS <sub>2</sub> inorganic nanotubes. <i>CrystEngComm</i> , 2014, 16, 5062.	1.3	39
29	Novel poly(3-hydroxybutyrate) nanocomposites containing WS <sub>2</sub> inorganic nanotubes with improved thermal, mechanical and tribological properties. <i>Materials Chemistry and Physics</i> , 2014, 147, 273-284.	2.0	38
30	New inorganic nanotube polymer nanocomposites: improved thermal, mechanical and tribological properties in isotactic polypropylene incorporating INT-MoS <sub>2</sub> . <i>Journal of Materials Chemistry</i> , 2012, 22, 17002.	6.7	36
31	Isothermal crystallization kinetics of isotactic polypropylene with inorganic fullerene-like WS <sub>2</sub> nanoparticles. <i>Thermochimica Acta</i> , 2008, 472, 11-16.	1.2	35
32	Nanocomposite biomaterials based on poly(ether-ether-ketone) (PEEK) and WS <sub>2</sub> inorganic nanotubes. <i>Journal of Materials Chemistry B</i> , 2014, 2, 4509.	2.9	35
33	The crystallization of polypropylene in multiwall carbon nanotube-based composites. <i>Polymer Composites</i> , 2011, 32, 324-333.	2.3	34
34	Towards the development of poly(phenylene sulphide) based nanocomposites with enhanced mechanical, electrical and tribological properties. <i>Materials Chemistry and Physics</i> , 2012, 135, 348-357.	2.0	34
35	Towards a new generation of polymer nanocomposites based on inorganic nanotubes. <i>Journal of Materials Chemistry</i> , 2011, 21, 3574.	6.7	33
36	Novel melt-processable nylon-6/inorganic fullerene-like WS <sub>2</sub> nanocomposites for critical applications. <i>Materials Chemistry and Physics</i> , 2011, 129, 641-648.	2.0	33

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37	Thermal properties, structure and morphology of PEEK/thermotropic liquid crystalline polymer blends. <i>Polymer International</i> , 2003, 52, 1876-1886.	1.6	31
38	Cure kinetics of an epoxy/liquid aromatic diamine modified with poly(ether imide). <i>Journal of Applied Polymer Science</i> , 2005, 96, 660-672.	1.3	31
39	Isothermal Crystallization Kinetics of Novel Isotactic Polypropylene/MoS <sub>2</sub> Inorganic Nanotube Nanocomposites. <i>Journal of Physical Chemistry B</i> , 2011, 115, 2248-2255.	1.2	31
40	Morphology and thermal properties of biodegradable poly(hydroxybutyrate-co-hydroxyvalerate)/tungsten disulphide inorganic nanotube nanocomposites. <i>Materials Chemistry and Physics</i> , 2016, 170, 145-153.	2.0	27
41	Mechanical and electrical properties of novel poly(ether ether ketone)/carbon nanotube/inorganic fullerene-like WS <sub>2</sub> hybrid nanocomposites: Experimental measurements and theoretical predictions. <i>Materials Chemistry and Physics</i> , 2011, 130, 126-133.	2.0	26
42	Inorganic Nanoparticle-Modified Poly(Phenylene Sulphide)/ Carbon Fiber Laminates: Thermomechanical Behaviour. <i>Materials</i> , 2013, 6, 3171-3193.	1.3	25
43	Polymer blend nanocomposites based on poly(L-lactic acid), polypropylene and WS <sub>2</sub> inorganic nanotubes. <i>RSC Advances</i> , 2016, 6, 40033-40044.	1.7	25
44	Evaluating the Reinforcement of Inorganic Fullerene-like Nanoparticles in Thermoplastic Matrices by Depth-Sensing Indentation. <i>Journal of Physical Chemistry C</i> , 2013, 117, 20936-20943.	1.5	24
45	Novel Polypropylene/Inorganic Fullerene-like WS <sub>2</sub> Nanocomposites Containing a $\hat{\Gamma}^2$ -Nucleating Agent: Isothermal Crystallization and Melting Behavior. <i>Journal of Physical Chemistry B</i> , 2012, 116, 1788-1795.	1.2	23
46	Novel polypropylene/inorganic fullerene-like WS <sub>2</sub> nanocomposites containing a $\hat{\Gamma}^2$ -nucleating agent: Mechanical, tribological and rheological properties. <i>Materials Chemistry and Physics</i> , 2014, 144, 98-106.	2.0	23
47	Inorganic WS <sub>2</sub> nanotubes that improve the crystallization behavior of poly(3-hydroxybutyrate). <i>CrystEngComm</i> , 2014, 16, 1126-1135.	1.3	23
48	Non-Isothermal Cold-Crystallization Behavior and Kinetics of Poly(L-Lactic Acid)/WS <sub>2</sub> Inorganic Nanotube Nanocomposites. <i>Polymers</i> , 2015, 7, 2175-2189.	2.0	23
49	WS <sub>2</sub> inorganic nanotubes reinforced poly(L-lactic acid)/hydroxyapatite hybrid composite biomaterials. <i>RSC Advances</i> , 2015, 5, 65514-65525.	1.7	23
50	Cure kinetics and modeling of an epoxy resin cross-linked in the presence of two different diamine hardeners. <i>Polymer Engineering and Science</i> , 2005, 45, 1581-1589.	1.5	22
51	Novel Polypropylene/Inorganic Fullerene-like WS <sub>2</sub> Nanocomposites Containing a $\hat{\Gamma}^2$ -Nucleating Agent: Dynamic Crystallization and Melting Behavior. <i>Journal of Physical Chemistry B</i> , 2011, 115, 10836-10843.	1.2	21
52	Mechanical and thermal behaviour of isotactic polypropylene reinforced with inorganic fullerene-like WS <sub>2</sub> nanoparticles: Effect of filler loading and temperature. <i>Materials Chemistry and Physics</i> , 2013, 141, 979-989.	2.0	21
53	Effect of particle size and a processing aid on the crystallization and melting behavior of iPP/red pine wood flour composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011, 42, 935-949.	3.8	20
54	Novel melt-processable nylon-6/inorganic fullerene-like WS <sub>2</sub> nanocomposites: Complex isothermal crystallization kinetics and melting behaviour. <i>Materials Chemistry and Physics</i> , 2011, 128, 265-273.	2.0	18

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55	Novel Melt-Processable Nanocomposites Based on Isotactic Polypropylene and Carbon Nitride: Morphology, Crystallization, and Dynamic Mechanical Properties. <i>Soft Materials</i> , 2010, 8, 407-425.	0.8	17
56	Dynamic Crystallization Kinetics and Nucleation Parameters of a New Generation of Nanocomposites Based on Isotactic Polypropylene and MoS <sub>2</sub> Inorganic Nanotubes. <i>Journal of Physical Chemistry B</i> , 2011, 115, 2850-2856.	1.2	17
57	Modeling the chemorheological behavior of epoxy/liquid aromatic diamine for resin transfer molding applications. <i>Journal of Applied Polymer Science</i> , 2006, 102, 4228-4237.	1.3	15
58	Isothermal crystallization kinetics and melting behavior of poly(L-lactic acid)/WS <sub>2</sub> inorganic nanotube nanocomposites. <i>Journal of Materials Science</i> , 2015, 50, 6066-6074.	1.7	15
59	Isothermal crystallization kinetics of PEEK/Vectra <sup>®</sup> blends by DSC and time-resolved synchrotron X-ray diffraction. <i>Polymer Engineering and Science</i> , 2006, 46, 1411-1418.	1.5	14
60	Crystalline Transformations in Nylon-6/Single-Walled Carbon Nanotube Nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 6120-6126.	0.9	14
61	Integration of block copolymer-wrapped single-wall carbon nanotubes into a trifunctional epoxy resin. Influence on thermal performance. <i>Polymer Degradation and Stability</i> , 2010, 95, 2065-2075.	2.7	14
62	Kinetic analysis of thermo-oxidative degradation of PEEK/thermotropic liquid crystalline polymer blends. <i>Polymer Engineering and Science</i> , 2006, 46, 129-138.	1.5	13
63	Bio-based polymer nanocomposites based on nylon 11 and WS <sub>2</sub> inorganic nanotubes. <i>RSC Advances</i> , 2015, 5, 17879-17887.	1.7	10
64	Effect of WS <sub>2</sub> Inorganic Nanotubes on Isothermal Crystallization Behavior and Kinetics of Poly(3-Hydroxybutyrate-co-3-hydroxyvalerate). <i>Polymers</i> , 2018, 10, 166.	2.0	8
65	Nanocomposite Materials with Poly(L-lactic Acid) and Transition-Metal Dichalcogenide Nanosheets 2D-TMDCs WS <sub>2</sub> . <i>Polymers</i> , 2020, 12, 2699.	2.0	7
66	Biopolymer Nanocomposite Materials Based on Poly(L-lactic Acid) and Inorganic Fullerene-like WS <sub>2</sub> Nanoparticles. <i>Polymers</i> , 2021, 13, 2947.	2.0	7
67	The Effect of WS <sub>2</sub> Nanosheets on the Non-Isothermal Cold- and Melt-Crystallization Kinetics of Poly(L-lactic acid) Nanocomposites. <i>Polymers</i> , 2021, 13, 2214.	2.0	5
68	Nanocomposite Materials Based on TMDCs WS <sub>2</sub> Modified Poly(L-Lactic Acid)/Poly(Vinylidene Fluoride) Polymer Blends. <i>Polymers</i> , 2021, 13, 2179.	2.0	1
69	Investigation of the Crystallization Kinetics and Melting Behaviour of Polymer Blend Nanocomposites Based on Poly(L-Lactic Acid), Nylon 11 and TMDCs WS <sub>2</sub> . <i>Polymers</i> , 2022, 14, 2692.	2.0	0