

# Podklady pro habilitační a jmenovací řízení (přehled publikační činnosti)

**Uchazeč:** M.Sc. Rafael Omar Torres Mendieta, Ph.D.

**Podpis:**

**Hodnocené období: 2018-2023**

**h-index: 13**

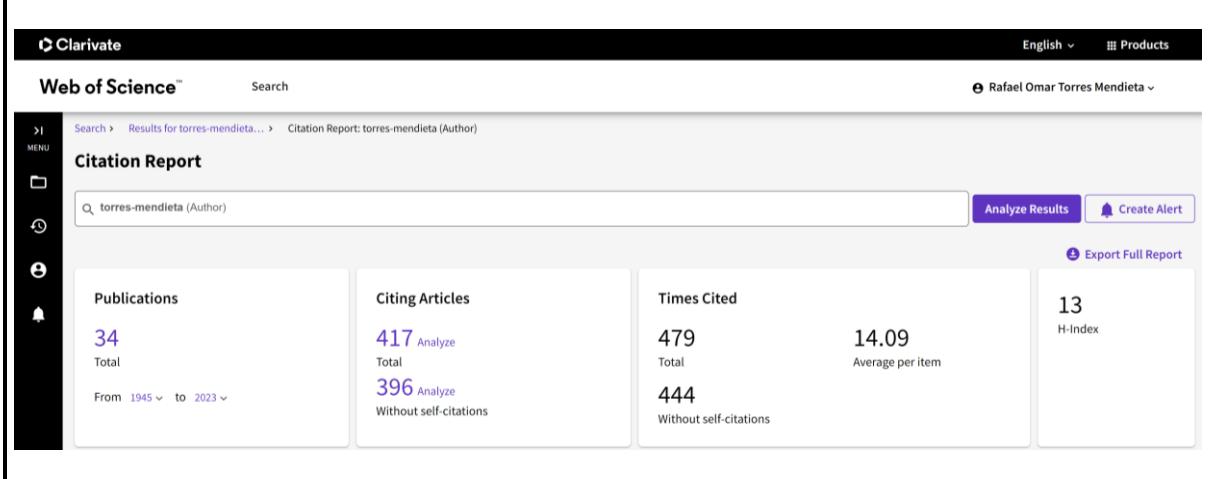
**Total number of citations: 479 (444 without self-citations)**

(data from Web of Science database, 02/2023)

## 1. Citace

Overall publication overview

Total number of citations: 479



Clarivate English Products

Web of Science™ Search Rafael Omar Torres Mendieta

Citation Report

Search Results for torres-mendieta... > Citation Report: torres-mendieta (Author)

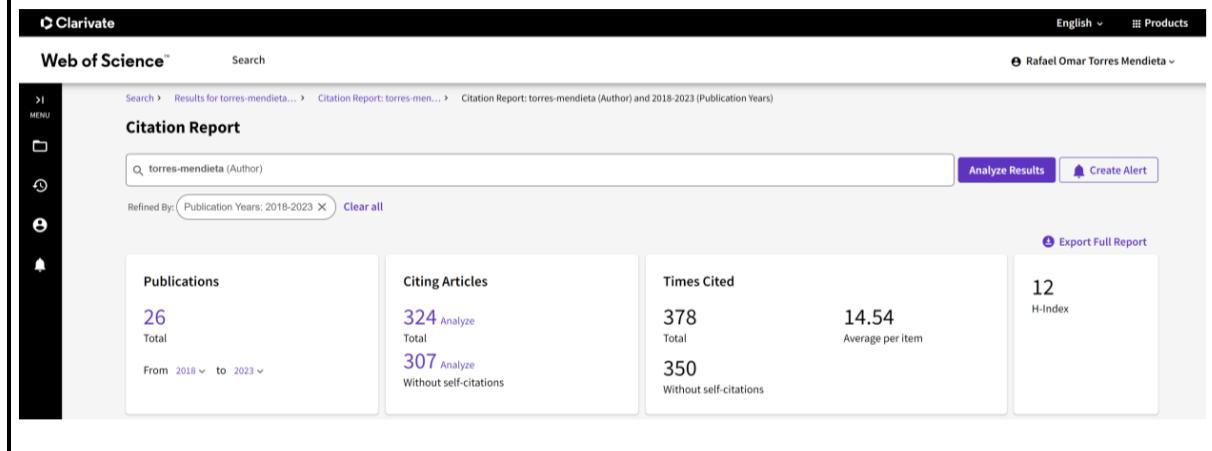
torres-mendieta (Author) Analyze Results Create Alert Export Full Report

Publications	Citing Articles	Times Cited	H-Index
34 Total From 1945 to 2023	417 Analyze Total 396 Analyze Without self-citations	479 Total 444 Without self-citations 14.09 Average per item	13 H-Index



## Publication overview for the period 2018-2023

Total number of citations: 378 (350 without self-citations)



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Web of Science™ Search English Products

Rafael Omar Torres Mendieta

Search Results for torres-mendieta... Citation Report: torres-men... Citation Report: torres-mendieta (Author) and 2018-2023 (Publication Years)

Citation Report

torres-mendieta (Author) Analyze Results Create Alert Export Full Report

Refined By: Publication Years: 2018-2023 Clear all

Publications	Citing Articles	Times Cited	H-Index
26 Total From: 2018 to 2023	324 Analyze Total 307 Analyze Without self-citations	378 Total 350 Without self-citations	14.54 Average per item
			12 H-Index

## 2. Seznam publikací v časopisech a sbornících konferencí a počty citací

Out of the 26 included publications, 19 were published in Q1 journals, 3 in Q2, 1 in Q3 and 3 in proceedings indexed by the Web of Science.

26 Publications	Sort by: Citations: highest first ▾	Citations						
		< Previous year Next year >					Average per year	Total
		2019	2020	2021	2022	2023		
		Total	48	75	105	136	6	63
1	Chemical oxidation and reduction of hexachlorocyclohexanes: A review Waclawek, S.; Silvestri, D.; ...; Dionysiou, D.D. Oct 1 2019   WATER RESEARCH 162 , pp.302-319	1	15	19	21	3	11.8	59
2	Fabrication by Laser Irradiation in a Continuous Flow Jet of Carbon Quantum Dots for Fluorescence Imaging Donate-Buendia, C.; Torres-Mendieta, R.; ...; Minguez-Vega, G. Mar 2018   ACS OMEGA 3 (3) , pp.2735-2742	12	9	22	13	1	9.83	59
3	Towards the scale-up of the formation of nanoparticles on alpha-Ag2WO4 with bactericidal properties by femtosecond laser irradiation Assis, M.; Cerdancillo, E.; ...; Andres, J. Jan 30 2018   SCIENTIFIC REPORTS 8	9	7	6	6	1	5.5	33
4	A poly(3-hydroxybutyrate)-chitosan polymer conjugate for the synthesis of safer gold nanoparticles and their applications Silvestri, D.; Waclawek, S.; ...; Varma, R.S. Nov 7 2018   GREEN CHEMISTRY 20 (21) , pp.4975-4982	9	9	4	7	0	4.83	29
5	Production of electrospun nanofibers based on graphene oxide/gum Arabic Silvestri, D.; Miksicek, J.; ...; Čermík, M. Mar 1 2019   INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES 124 , pp.396-402	1	8	10	9	0	5.6	28

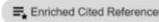


26 Publications		Citations						
		< Previous year Next year >					Average per year	Total
		2019	2020	2021	2022	2023		
⊖ 6	Ag Nanoparticles/alpha-Ag2WO4 Composite Formed by Electron Beam and Femtosecond Irradiation as Potent Antifungal and Antitumor Agents Assisi, M.; Robledo, T.; ...; Longo, E. Jul 9 2019   <a href="#">SCIENTIFIC REPORTS</a> 9	0	8	6	9	0	4,6	23
⊖ 7	Electrospun fibers based on botanical, seaweed, microbial, and animal sourced biomacromolecules and their multidimensional applications Kumar, K.P.; Zare, E.N.; ...; Varma, R.S. Feb 28 2021   Jan 2021 (Early Access)   <a href="#">INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES</a> 171, pp.130-149	0	0	8	8	0	5,33	16
⊖ 8	Laser and electron beam-induced formation of Ag/Cr structures on Ag2CrO4 Lemos, P.S.; Silva, G.S.; ...; Longo, E. Mar 21 2019   <a href="#">PHYSICAL CHEMISTRY CHEMICAL PHYSICS</a> 21 (11), pp.6101-6111	2	5	5	4	0	3,2	16
⊖ 9	Electrospun fibers based on carbohydrate gum polymers and their multifaceted applications Padil, V.V.T.; Cheong, J.Y.; ...; Varma, R.S. Nov 1 2020   <a href="#">CARBOHYDRATE POLYMERS</a> 247	0	1	7	7	0	3,75	15
⊖ 10	Laser-induced formation of bismuth nanoparticles Assis, M.; Cordoncillo, E.; ...; Longo, E. May 28 2018   <a href="#">PHYSICAL CHEMISTRY CHEMICAL PHYSICS</a> 20 (20), pp.13693-13696	8	3	1	1	0	2,5	15
⊖ 11	Modification of nZVI with a bio-conjugate containing amine and carbonyl functional groups for catalytic activation of persulfate Silvestri, D.; Wacławek, S.; ...; Černík, M. Feb 15 2021   <a href="#">SEPARATION AND PURIFICATION TECHNOLOGY</a> 257	0	0	3	11	0	4,67	14

26 Publications		Citations						
		< Previous year Next year >					Average per year	Total
		2019	2020	2021	2022	2023		
⊖ 12	Femtosecond laser settings for optimal bracket bonding to zirconia Garcia-Sanz, V.; Paredes-Gallardo, V.; ...; Albaladejo, A. Mar 2019   <a href="#">LASERS IN MEDICAL SCIENCE</a> 34 (2), pp.297-304	1	2	2	7	0	2,4	12
⊖ 13	Laser-synthesized Ag/TiO nanoparticles to integrate catalytic pollutant degradation and antifouling enhancement in nanofibrous membranes for oil-water separation Ettel, D.; Havelka, O.; ...; Torres-Mendieta, R. Oct 30 2021   Jun 2021 (Early Access)   <a href="#">APPLIED SURFACE SCIENCE</a> 564	0	0	0	9	1	3,33	10
<span style="border: 1px solid #ccc; padding: 2px;">Enriched Cited References</span>								
⊖ 14	Laser/Electron Irradiation on Indium Phosphide (InP) Semiconductor: Promising Pathways to In Situ Formation of Indium Nanoparticles Assis, M.; Macedo, N.G.; ...; Longo, E. Nov 2018   <a href="#">PARTICLE &amp; PARTICLE SYSTEMS CHARACTERIZATION</a> 35 (11)	4	3	1	1	0	1,5	9
⊖ 15	PVDF nanofibrous membranes modified via laser-synthesized Ag nanoparticles for a cleaner oily water separation Torres-Mendieta, R.; Yalcinkaya, E.; ...; Brijak, M. Oct 1 2020   <a href="#">APPLIED SURFACE SCIENCE</a> 526	0	0	4	4	0	2	8
⊖ 16	Laser-induced fragmentation of carbonyl iron as a clean method to enhance magnetorheological effect Čvek, M.; Torres-Mendieta, R.; ...; Černík, M. May 1 2020   <a href="#">JOURNAL OF CLEANER PRODUCTION</a> 254	0	1	3	4	0	2	8



26 Publications	Sort by: Citations: highest first ▾	Citations						
		< Previous year					Next year >	
		2019	2020	2021	2022	2023	Average per year	Total
17	Laser-assisted synthesis of Fe-Cu oxide nanocrystals Torres-Mendieta, R.; Havelka, O.; ...; Cernik, M. 5th International Conference on Advanced Nanoparticle Generation and Excitation by Lasers in Liquids (ANGEL) Mar 1 2019   <a href="#">APPLIED SURFACE SCIENCE</a> 469, pp.1007-1015	1	4	1	2	0	1.6	8
18	Influence of catalyst zeta potential on the activation of persulfate Silvestri, D.; Krawczyk, B.; ...; Wacławek, S. Aug 14 2021   Jul 2021 (Early Access)   <a href="#">CHEMICAL COMMUNICATIONS</a> 57 (63), pp.7814-7817	0	0	2	5	0	2.33	7
19	Sustainable and safer nanoclay composites for multifaceted applications Padil, J.V.T.; Kumar, K.P.A.; ...; Varma, R.S. Mar 2022 (Early Access)   <a href="#">GREEN CHEMISTRY</a>	0	0	0	4	0	2	4
20	On the Use of Laser Fragmentation for the Synthesis of Ligand-Free Ultra-Small Iron Nanoparticles in Various Liquid Environments Havelka, O.; Čvek, M.; ...; Torres-Mendieta, R. Jun 2021   <a href="#">NANOMATERIALS</a> 11 (6)	0	0	0	2	0	0.67	2
								
21	SYNERGISTIC EFFECT OF NANO ZERO-VALENT IRON AND CYCLODEXTRINS: A NANO-STRUCTURE FOR WATER PURIFICATION Krawczyk, B.; Wacławek, S.; ...; Cernik, M. 11th International Conference on Nanomaterials - Research and Application (NANOCON) 2020   11TH INTERNATIONAL CONFERENCE ON NANOMATERIALS - RESEARCH & APPLICATION (NANOCON 2019), pp.279-286	0	0	1	1	0	0.5	2

26 Publications	Sort by: Citations: highest first ▾	Citations						
		< Previous year					Next year >	
		2019	2020	2021	2022	2023	Average per year	Total
22	Toward Expanding the Optical Response of Ag <sub>2</sub> CrO <sub>4</sub> and Bi <sub>2</sub> O <sub>3</sub> by Their Laser-Mediated Heterojunction Torres-Mendieta, R.Q.; Teixeira, M.M.; ...; Longo, E. Dec 3 2020   <a href="#">JOURNAL OF PHYSICAL CHEMISTRY C</a> 124 (48), pp.26404-26414	0	0	0	1	0	0.25	1
								
23	Growth suppression of bacteria by biofilm deterioration using silver nanoparticles with magnetic doping Torres-Mendieta, R.; Nguyen, N.H.A.; ...; Amendola, V. Dec 15 2022   Nov 2022 (Early Access)   <a href="#">NANOSCALE</a> 14 (48), pp.18143-18156	0	0	0	0	0	0	0
								
24	Stable Magnetorheological Fluids Containing Bidisperse Fillers with Compact/Mesoporous Silica Coatings Čvek, M.; Jamatia, T.; ...; Torres-Mendieta, R. Oct 2022   <a href="#">INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES</a> 23 (19)	0	0	0	0	0	0	0
								
25	EXPANSION OF OPTICAL PROPERTIES IN TiO <sub>x</sub> NANOPARTICLES BY THEIR LASER-MEDIATED ALLOYING WITH AG Ettel, D.; Havelka, O.; ...; Torres-Mendieta, R. 12th International Conference on Nanomaterials - Research and Application (NANOCON) 2021   12TH INTERNATIONAL CONFERENCE ON NANOMATERIALS - RESEARCH & APPLICATION (NANOCON 2020), pp.109-115	0	0	0	0	0	0	0
26	Fluorescence cell imaging using carbon quantum dots generated by continuous fragmentation Donate-Buendía, C.; Torres-Mendieta, R.; ...; Minguez-Vega, G. Conference on Synthesis and Photonics of Nanoscale Materials XVI 2019   SYNTHESIS AND PHOTONICS OF NANOSCALE MATERIALS XVI 10907	0	0	0	0	0	0	0

Citation Report Publications Table

