Sami Rtimi

List of Publications by Year
in descending order

140 papers	5,119 citations	66234 42 h-index	114278 63 g-index
144 all docs	144 docs citations	144 times ranked	4882 citing authors

#	Article	IF	Citations
1	Hydrogen-based sono-hybrid catalytic degradation and mitigation of industrially-originated dye-based pollutants. International Journal of Hydrogen Energy, 2023, 48, 6597-6612.	3.8	31
2	Modeling of indoor air treatment using an innovative photocatalytic luminous textile: Reactor compactness and mass transfer enhancement. Chemical Engineering Journal, 2022, 430, 132636.	6.6	17
3	Preparation and applications of chitosan and cellulose composite materials. Journal of Environmental Management, 2022, 301, 113850.	3.8	60
4	Heterogeneous advanced oxidation processes over stoichiometric ABO3 perovskite nanostructures. Materials Today Nano, 2022, 18, 100184.	2.3	28
5	Novel Photocatalysts for Environmental and Energy Applications. Catalysts, 2022, 12, 458.	1.6	8
6	Enhanced adsorption of ketoprofen and 2,4-dichlorophenoxyactic acid on Physalis peruviana fruit residue functionalized with H2SO4: Adsorption properties and statistical physics modeling. Chemical Engineering Journal, 2022, 445, 136773.	6.6	22
7	Titanium-based photocatalytic coatings for bacterial disinfection: The shift from suspended powders to catalytic interfaces. Surfaces and Interfaces, 2022, 32, 102078.	1.5	9
8	Recent progress and challenges on the removal of per- and poly-fluoroalkyl substances (PFAS) from contaminated soil and water. Environmental Science and Pollution Research, 2022, 29, 58405-58428.	2.7	18
9	Investigation and modeling of odors release from membrane holes on daily overlay in a landfill and its impact on landfill odor control. Environmental Science and Pollution Research, 2021, 28, 4443-4451.	2.7	3
10	Insight into the interaction of magnetic photocatalysts with the incoming light accelerating bacterial inactivation and environmental cleaning. Applied Catalysis B: Environmental, 2021, 281, 119420.	10.8	33
11	Combining photocatalytic process and biological treatment for Reactive Green 12 degradation: optimization, mineralization, and phytotoxicity with seed germination. Environmental Science and Pollution Research, 2021, 28, 12490-12499.	2.7	34
12	Advances in Antimicrobial Coatings. Coatings, 2021, 11, 148.	1.2	3
13	Update on Interfacial Charge Transfer (IFTC) Processes on Films Inactivating Viruses/Bacteria under Visible Light: Mechanistic Considerations and Critical Issues. Catalysts, 2021, 11, 201.	1.6	13
14	Emerging technologies for biofuel production: A critical review on recent progress, challenges and perspectives. Journal of Environmental Management, 2021, 290, 112627.	3.8	122
15	Accelerating the Design of Photocatalytic Surfaces for Antimicrobial Application: Machine Learning Based on a Sparse Dataset. Catalysts, 2021, 11, 1001.	1.6	6
16	Coupling electrocoagulation and solar photocatalysis for electro- and photo-catalytic removal of carmoisine by Ag/graphitic carbon nitride: Optimization by process modeling and kinetic studies. Journal of Molecular Liquids, 2021, 340, 116917.	2.3	9
17	Photo-induced environmental remediation, biomedical imaging, and microbial inactivation by Mn-doped semiconductors: critical issues. Current Opinion in Chemical Engineering, 2021, 34, 100731.	3.8	2
18	Nanostructured NaFeS2 as a cost-effective and robust electrocatalyst for hydrogen and oxygen evolution with reduced overpotentials. Chemical Engineering Journal, 2021, 426, 131315.	6.6	20

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19	Mechanisms and adsorption capacities of biochar for the removal of organic and inorganic pollutants from industrial wastewater. International Journal of Environmental Science and Technology, 2021, 18, 3273-3294.	1.8	287
20	Preparation, characterization and application of biosurfactant in various industries: A critical review on progress, challenges and perspectives. Environmental Technology and Innovation, 2021, 24, 102090.	3.0	53
21	Recent advances on sputtered films with Cu in ppm concentrations leading to an acceleration of the bacterial inactivation. Catalysis Today, 2020, 340, 347-362.	2.2	20
22	Indoor air treatment of refrigerated food chambers with synergetic association between cold plasma and photocatalysis: Process performance and photocatalytic poisoning. Chemical Engineering Journal, 2020, 382, 122951.	6.6	35
23	Recent progress in black phosphorus nanostructures as environmental photocatalysts. Chemical Engineering Journal, 2020, 379, 122297.	6.6	73
24	New Evidence for Ag-Sputtered Materials Inactivating Bacteria by Surface Contact without the Release of Ag Ions: End of a Long Controversy?. ACS Applied Materials & Interfaces, 2020, 12, 4998-5007.	4.0	10
25	KCa2Mg2V3O12: A novel efficient rare-earth-free self-activated yellow-emitting phosphor. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 401, 112765.	2.0	19
26	Synthesis and photoluminescence properties of near-UV-excitable cyan-emitting Ca2YHf2Ga3O12:Ce3+ garnet phosphors. Journal of Luminescence, 2020, 227, 117544.	1.5	14
27	Tandem Synthesis of High Yield MoS2 Nanosheets and Enzyme Peroxidase Mimicking Properties. Catalysts, 2020, 10, 1009.	1.6	13
28	Nano-sized iron oxides supported on polyester textile to remove fluoroquinolones in hospital wastewater. Environmental Science: Nano, 2020, 7, 2156-2165.	2.2	11
29	Simultaneous removal of bacteria and volatile organic compounds on Cu2O-NPs decorated TiO2 nanotubes: Competition effect and kinetic studies. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 400, 112722.	2.0	43
30	Biological responses at the interface of Ti-doped diamond-like carbon surfaces for indoor environment application. Environmental Science and Pollution Research, 2020, 27, 31120-31129.	2.7	6
31	Photo-plasma catalytic hybrid systems for air treatment: reactor design from laboratory to industrial scales. , 2020, , 373-389.		0
32	Architectured Cuâ€"TNTZ Bilayered Coatings Showing Bacterial Inactivation under Indoor Light and Controllable Copper Release: Effect of the Microstructure on Copper Diffusion. Coatings, 2020, 10, 574.	1.2	1
33	Emerging technologies for the recovery of rare earth elements (REEs) from the end-of-life electronic wastes: a review on progress, challenges, and perspectives. Environmental Science and Pollution Research, 2020, 27, 36052-36074.	2.7	72
34	Digitally Printed AgNPs Doped TiO2 on Commercial Porcelain-GrÃ¨s Tiles: Synergistic Effects and Continuous Photocatalytic Antibacterial Activity. Surfaces, 2020, 3, 11-25.	1.0	18
35	Insights into the Photocatalytic Bacterial Inactivation by Flower-Like Bi2WO6 under Solar or Visible Light, Through in Situ Monitoring and Determination of Reactive Oxygen Species (ROS). Water (Switzerland), 2020, 12, 1099.	1.2	26
36	Advances in catalytic/photocatalytic bacterial inactivation by nano Ag and Cu coated surfaces and medical devices. Applied Catalysis B: Environmental, 2019, 240, 291-318.	10.8	112

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37	Photocatalytic indoor/outdoor air treatment and bacterial inactivation on CuxO/TiO2 prepared by HiPIMS on polyester cloth under low intensity visible light. Applied Catalysis B: Environmental, 2019, 259, 118074.	10.8	58
38	Nanomaterials-based coatings: an introduction. , 2019, , 1-7.		5
39	Photocatalytic Performance of CuxO/TiO2 Deposited by HiPIMS on Polyester under Visible Light LEDs: Oxidants, Ions Effect, and Reactive Oxygen Species Investigation. Materials, 2019, 12, 412.	1.3	49
40	Methods for Synthesis of Hybrid Nanoparticles. , 2019, , 51-63.		14
41	Flower-like magnetized photocatalysts accelerating an emerging pollutant removal under indoor visible light and related phenomena. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 378, 105-113.	2.0	23
42	Magnetically separable TiO2/FeOx/POM accelerating the photocatalytic removal of the emerging endocrine disruptor: 2,4-dichlorophenol. Applied Catalysis B: Environmental, 2019, 254, 66-75.	10.8	86
43	Physics, Electrochemistry, Photochemistry, and Photoelectrochemistry of Hybrid Nanoparticles. , 2019, , 95-123.		7
44	Femtosecond Spectroscopy of Au Hot-Electron Injection into TiO2: Evidence for Au/TiO2 Plasmon Photocatalysis by Bactericidal Au Ions and Related Phenomena. Nanomaterials, 2019, 9, 217.	1.9	25
45	Evidence for a dual mechanism in the TiO2/CuxO photocatalyst during the degradation of sulfamethazine under solar or visible light: Critical issues. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 375, 270-279.	2.0	48
46	Quantification of the local magnetized nanotube domains accelerating the photocatalytic removal of the emerging pollutant tetracycline. Applied Catalysis B: Environmental, 2019, 248, 450-458.	10.8	68
47	Photocatalytic degradation of binary and ternary mixtures of antibiotics: reactive species investigation in pilot scale. Chemical Engineering Research and Design, 2019, 144, 300-309.	2.7	33
48	Deciphering the Mechanisms of Bacterial Inactivation on HiPIMS Sputtered CuxO-FeOx-PET Surfaces: From Light Absorption to Catalytic Bacterial Death. ACS Applied Materials & Interfaces, 2019, 11, 45319-45329.	4.0	8
49	Piezoelectric materials for catalytic/photocatalytic removal of pollutants: Recent advances and outlook. Applied Catalysis B: Environmental, 2019, 241, 256-269.	10.8	440
50	Synergism between non-thermal plasma and photocatalysis: Implicationsin the post discharge of ozone at a pilot scale in a catalytic fixed-bed reactor. Applied Catalysis B: Environmental, 2019, 241, 227-235.	10.8	37
51	Monitoring the energy of the metal ion-content plasma-assisted deposition and its implication for bacterial inactivation. Applied Surface Science, 2019, 467-468, 749-752.	3.1	2
52	Recent advances in nano-bio-interactions: Editorial. Colloids and Surfaces B: Biointerfaces, 2019, 173, 906.	2.5	0
53	Enhancing solar disinfection of water in PET bottles by optimized in-situ formation of iron oxide films. From heterogeneous to homogeneous action modes with H2O2 vs. O2 â€“ Part 2: Direct use of (natural) iron oxides. Chemical Engineering Journal, 2019, 360, 1051-1062.	6.6	6
54	Iron-coated polymer films with high antibacterial activity under indoor and outdoor light, prepared by different facile pre-treatment and deposition methods. Applied Catalysis B: Environmental, 2019, 243, 161-174.	10.8	0

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55	Enhancing solar disinfection of water in PET bottles by optimized in-situ formation of iron oxide films. From heterogeneous to homogeneous action modes with H2O2 vs. O2 â€“ Part 1: Iron salts as oxide precursors. Chemical Engineering Journal, 2019, 358, 211-224.	6.6	17
56	Duality in the Mechanism of Hexagonal ZnO/CuxO Nanowires Inducing Sulfamethazine Degradation under Solar or Visible Light. Catalysts, 2019, 9, 916.	1.6	37
57	Discoloration of simulated textile effluent in continuous photoreactor using immobilized titanium dioxide: Effect of zinc and sodium chloride. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 358, 111-120.	2.0	39
58	Bacterial disinfection by the photo-Fenton process: Extracellular oxidation or intracellular photo-catalysis?. Applied Catalysis B: Environmental, 2018, 227, 285-295.	10.8	75
59	Innovative Ti_{1â€“<i>x</i>}Nb_{<i>x</i>}Nâ€“Ag Films Inducing Bacterial Disinfection by Visible Light/Thermal Treatment. ACS Applied Materials & Interfaces, 2018, 10, 12021-12030.	4.0	9
60	Evidence for the degradation of an emerging pollutant by a mechanism involving iso-energetic charge transfer under visible light. Applied Catalysis B: Environmental, 2018, 233, 175-183.	10.8	47
61	Abatement of ammonia and butyraldehyde under non-thermal plasma and photocatalysis: Oxidation processes for the removal of mixture pollutants at pilot scale. Chemical Engineering Journal, 2018, 344, 165-172.	6.6	55
62	Solar light and the photo-Fenton process against antibiotic resistant bacteria in wastewater: A kinetic study with a Streptomycin-resistant strain. Catalysis Today, 2018, 313, 86-93.	2.2	41
63	Mechanisms of the Antibacterial Effects of TiO2â€“FeOx under Solar or Visible Light: Schottky Barriers versus Surface Plasmon Resonance. Coatings, 2018, 8, 391.	1.2	21
64	Interaction of Vibrio to Biotic and Abiotic Surfaces: Relationship between Hydrophobicity, Cell Adherence, Biofilm Production, and Cytotoxic Activity. Surfaces, 2018, 1, 187-201.	1.0	9
65	Oxygen enriched network-type carbon spheres for multipurpose water purification applications. Environmental Technology and Innovation, 2018, 12, 160-171.	3.0	13
66	Synthesis and characterization of fluorinated anatase nanoparticles and subsequent N-doping for efficient visible light activated photocatalysis. Colloids and Surfaces B: Biointerfaces, 2018, 171, 445-450.	2.5	33
67	Reactive species monitoring and their contribution for removal of textile effluent with photocatalysis under UV and visible lights: Dynamics and mechanism. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 365, 94-102.	2.0	45
68	Extracellular bacterial inactivation proceeding without Cu-ion release: Drastic effects of the applied plasma energy on the performance of the Cu-polyester (PES) samples. Applied Catalysis B: Environmental, 2018, 239, 245-253.	10.8	18
69	Bacterial adhesion and inactivation on Ag decorated TiO2-nanotubes under visible light: Effect of the nanotubes geometry on the photocatalytic activity. Colloids and Surfaces B: Biointerfaces, 2018, 170, 92-98.	2.5	57
70	Beneficial effect of Cu on Ti-Nb-Ta-Zr sputtered uniform/adhesive gum films accelerating bacterial inactivation under indoor visible light. Colloids and Surfaces B: Biointerfaces, 2017, 152, 152-158.	2.5	14
71	Modeling and treatment optimization of pharmaceutically active compounds by the photo-Fenton process: The case of the antidepressant Venlafaxine. Journal of Environmental Chemical Engineering, 2017, 5, 818-828.	3.3	18
72	Insight into the catalyst/photocatalyst microstructure presenting the same composition but leading to a variance in bacterial reduction under indoor visible light. Applied Catalysis B: Environmental, 2017, 208, 135-147.	10.8	22

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73	Innovative and stable TiO 2 supported catalytic surfaces removing aldehydes under UV-light irradiation. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 343, 96-102.	2.0	22
74	Bactericide effects of transparent polyethylene photocatalytic films coated by oxides under visible light. Applied Catalysis B: Environmental, 2017, 213, 62-73.	10.8	21
75	Study of synergetic effect, catalytic poisoning and regeneration using dielectric barrier discharge and photocatalysis in a continuous reactor: Abatement of pollutants in air mixture system. Applied Catalysis B: Environmental, 2017, 213, 53-61.	10.8	64
76	Study of a photocatalytic process for removal of antibiotics from wastewater in a falling film photoreactor: Scavenger study and process intensification feasibility. Chemical Engineering and Processing: Process Intensification, 2017, 122, 213-221.	1.8	78
77	Evidence for differentiated ionic and surface contact effects driving bacterial inactivation by way of genetically modified bacteria. Chemical Communications, 2017, 53, 9093-9096.	2.2	12
78	Fungicidal activity of copper-sputtered flexible surfaces under dark and actinic light against azole-resistant Candida albicans and Candida glabrata. Journal of Photochemistry and Photobiology B: Biology, 2017, 174, 229-234.	1.7	22
79	Effect of light and oxygen on repetitive bacterial inactivation on uniform, adhesive, robust and stable Cu-polyester surfaces. Journal of Advanced Oxidation Technologies, 2017, 20, .	0.5	6
80	Synchronic coupling of Cu2O(p)/CuO(n) semiconductors leading to Norfloxacin degradation under visible light: Kinetics, mechanism and film surface properties. Journal of Catalysis, 2017, 353, 133-140.	3.1	51
81	First unambiguous evidence for distinct ionic and surface-contact effects during photocatalytic bacterial inactivation on Cuâ€“Ag films: Kinetics, mechanism and energetics. Materials Today Chemistry, 2017, 6, 62-74.	1.7	19
82	Iron oxide-mediated semiconductor photocatalysis vs. heterogeneous photo-Fenton treatment of viruses in wastewater. Impact of the oxide particle size.. Journal of Hazardous Materials, 2017, 339, 223-231.	6.5	111
83	Photocatalytic performance of TiO 2 impregnated polyester for the degradation of Reactive Green 12: Implications of the surface pretreatment and the microstructure. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 346, 493-501.	2.0	25
84	Assessment of the correlation among antibiotic resistance, adherence to abiotic and biotic surfaces, invasion and cytotoxicity of Pseudomonas aeruginosa isolated from diseased gilthead sea bream. Colloids and Surfaces B: Biointerfaces, 2017, 158, 229-236.	2.5	12
85	Polystyrene CuO/Cu 2 O uniform films inducing MB-degradation under sunlight. Catalysis Today, 2017, 284, 77-83.	2.2	51
86	Effect of Fe(II)/Fe(III) species, pH, irradiance and bacterial presence on viral inactivation in wastewater by the photo-Fenton process: Kinetic modeling and mechanistic interpretation. Applied Catalysis B: Environmental, 2017, 204, 156-166.	10.8	77
87	FeOx magnetization enhancing E. coli inactivation by orders of magnitude on Ag-TiO2 nanotubes under sunlight. Applied Catalysis B: Environmental, 2017, 202, 438-445.	10.8	57
88	Grafted semiconductors on PE-films leading to bacterial inactivation: Synthesis, characterization and mechanism. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 519, 231-237.	2.3	7
89	A green solar photo-Fenton process for the elimination of bacteria and micropollutants in municipal wastewater treatment using mineral iron and natural organic acids. Applied Catalysis B: Environmental, 2017, 219, 538-549.	10.8	96
90	Recent Developments in Accelerated Antibacterial Inactivation on 2D Cu-Titania Surfaces under Indoor Visible Light. Coatings, 2017, 7, 20.	1.2	34

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91	Light-Assisted Advanced Oxidation Processes for the Elimination of Chemical and Microbiological Pollution of Wastewaters in Developed and Developing Countries. Molecules, 2017, 22, 1070.	1.7	93
92	Self-Sterilizing Sputtered Films for Applications in Hospital Facilities. Molecules, 2017, 22, 1074.	1.7	19
93	Synergistic Effect of Fluorinated and N Doped TiO2 Nanoparticles Leading to Different Microstructure and Enhanced Photocatalytic Bacterial Inactivation. Nanomaterials, 2017, 7, 391.	1.9	51
94	Indoor Light Enhanced Photocatalytic Ultra-Thin Films on Flexible Non-Heat Resistant Substrates Reducing Bacterial Infection Risks. Catalysts, 2017, 7, 57.	1.6	39
95	Environmentally mild self-cleaning processes on textile surfaces under daylight irradiation. , 2016, , 35-54.		2
96	Uniform, adhesive, and low cytotoxic films accelerating bacterial reduction in the dark and under visible light. , 2016, , 225-260.		1
97	Stable Photocatalytic Paints Prepared from Hybrid Core-Shell Fluorinated/Acrylic/TiO2 Waterborne Dispersions. Crystals, 2016, 6, 136.	1.0	19
98	Sputtered Gum metal thin films showing bacterial inactivation and biocompatibility. Colloids and Surfaces B: Biointerfaces, 2016, 146, 687-691.	2.5	12
99	<i>In Vitro</i> and <i>In Vivo</i> Effectiveness of an Innovative Silver-Copper Nanoparticle Coating of Catheters To Prevent Methicillin-Resistant Staphylococcus aureus Infection. Antimicrobial Agents and Chemotherapy, 2016, 60, 5349-5356.	1.4	37
100	New evidence for Cu-decorated binary-oxides mediating bacterial inactivation/mineralization in aerobic media. Colloids and Surfaces B: Biointerfaces, 2016, 144, 222-228.	2.5	18
101	Correlating microscopy techniques and ToF-SIMS analysis of fully grown mammalian oocytes. Analyst, The, 2016, 141, 4121-4129.	1.7	21
102	A New Perspective in the Use of FeOx-TiO2 Photocatalytic Films: Indole Degradation in the Absence of Fe-Leaching. Journal of Catalysis, 2016, 342, 184-192.	3.1	17
103	Sputtered Cu-polyethylene films inducing bacteria inactivation in the dark and under low intensity sunlight. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 330, 163-168.	2.0	3
104	Innovative self-sterilizing transparent Feâ€“phosphate polyethylene films under visible light. RSC Advances, 2016, 6, 77066-77074.	1.7	2
105	FeOx-TiO2 Film with Different Microstructures Leading to Femtosecond Transients with Different Properties: Biological Implications under Visible Light. Scientific Reports, 2016, 6, 30113.	1.6	17
106	Microstructure of Cuâ€“Ag Uniform Nanoparticulate Films on Polyurethane 3D Catheters: Surface Properties. ACS Applied Materials & Interfaces, 2016, 8, 56-63.	4.0	56
107	Supported TiO2 films deposited at different energies: Implications of the surface compactness on the catalytic kinetics.. Applied Catalysis B: Environmental, 2016, 191, 42-52.	10.8	46
108	Bactericidal activity and mechanism of action of copper-sputtered flexible surfaces against multidrug-resistant pathogens. Applied Microbiology and Biotechnology, 2016, 100, 5945-5953.	1.7	25

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109	Castles fall from inside: Evidence for dominant internal photo-catalytic mechanisms during treatment of Saccharomyces cerevisiae by photo-Fenton at near-neutral pH. Applied Catalysis B: Environmental, 2016, 185, 150-162.	10.8	53
110	Quasi-Instantaneous Bacterial Inactivation on Cuâ€“Ag Nanoparticulate 3D Catheters in the Dark and Under Light: Mechanism and Dynamics. ACS Applied Materials & Interfaces, 2016, 8, 47-55.	4.0	51
111	Insight on the photocatalytic bacterial inactivation by co-sputtered TiO 2 â€“Cu in aerobic and anaerobic conditions. Applied Catalysis B: Environmental, 2016, 182, 277-285.	10.8	49
112	Accelerated self-cleaning by Cu promoted semiconductor binary-oxides under low intensity sunlight irradiation. Applied Catalysis B: Environmental, 2016, 180, 648-655.	10.8	18
113	Preparation and Mechanism of Cu-Decorated TiO₂â€“ZrO₂ Films Showing Accelerated Bacterial Inactivation. ACS Applied Materials & Interfaces, 2015, 7, 12832-12839.	4.0	68
114	Light wavelength-dependent E. coli survival changes after simulated solar disinfection of secondary effluent. Photochemical and Photobiological Sciences, 2015, 14, 2238-2250.	1.6	12
115	Effect of surface pretreatment of TiO ₂ films on interfacial processes leading to bacterial inactivation in the dark and under light irradiation. Interface Focus, 2015, 5, 20140046.	1.5	36
116	Duality in the Escherichia coli and methicillin resistant Staphylococcus aureus reduction mechanism under actinic light on innovative co-sputtered surfaces. Applied Catalysis A: General, 2015, 498, 185-191.	2.2	21
117	Accelerated bacterial reduction on Agâ€“TaN compared with Agâ€“ZrN and Agâ€“TiN surfaces. Applied Catalysis B: Environmental, 2015, 174-175, 376-382.	10.8	26
118	Novel FeOxâ€“polyethylene transparent films: synthesis and mechanism of surface regeneration. RSC Advances, 2015, 5, 80203-80211.	1.7	25
119	New evidence for hybrid acrylic/TiO2 films inducing bacterial inactivation under low intensity simulated sunlight. Colloids and Surfaces B: Biointerfaces, 2015, 135, 1-7.	2.5	34
120	Innovative photocatalyst (FeO_xâ€“TiO₂): transients induced by femtosecond laser pulse leading to bacterial inactivation under visible light. RSC Advances, 2015, 5, 101751-101759.	1.7	22
121	Antibacterial surfaces based on functionally graded photocatalytic Fe₃O₄@TiO₂ coreâ€“shell nanoparticle/epoxy composites. RSC Advances, 2015, 5, 105416-105421.	1.7	16
122	Kinetics and mechanism for transparent polyethylene-TiO 2 films mediated self-cleaning leading to MB dye discoloration under sunlight irradiation. Applied Catalysis B: Environmental, 2015, 162, 236-244.	10.8	73
123	New evidence for TiO 2 uniform surfaces leading to complete bacterial reduction in the dark: Critical issues. Colloids and Surfaces B: Biointerfaces, 2014, 123, 593-599.	2.5	45
124	TiO₂and TiO₂-Doped Films Able to Kill Bacteria by Contact: New Evidence for the Dynamics of Bacterial Inactivation in the Dark and under Light Irradiation. International Journal of Photoenergy, 2014, 2014, 1-17.	1.4	19
125	Uniform TiO2/In2O3 surface films effective in bacterial inactivation under visible light. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 279, 1-7.	2.0	24
126	Accelerated <i>Escherichia coli</i> inactivation in the dark on uniform copper flexible surfaces. Biointerphases, 2014, 9, 029012.	0.6	17

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127	Innovative transparent non-scattering TiO2 bactericide thin films inducing increased E. coli cell wall fluidity. Surface and Coatings Technology, 2014, 254, 333-343.	2.2	44
128	Comparison of HIPIMS sputtered Ag- and Cu-surfaces leading to accelerated bacterial inactivation in the dark. Surface and Coatings Technology, 2014, 250, 14-20.	2.2	28
129	Growth of TiO2/Cu films by HiPIMS for accelerated bacterial loss of viability. Surface and Coatings Technology, 2013, 232, 804-813.	2.2	70
130	Evidence for TiON sputtered surfaces showing accelerated antibacterial activity under simulated solar irradiation. Solar Energy, 2013, 93, 55-62.	2.9	13
131	Coupling of narrow and wide band-gap semiconductors on uniform films active in bacterial disinfection under low intensity visible light: Implications of the interfacial charge transfer (IFCT). Journal of Hazardous Materials, 2013, 260, 860-868.	6.5	30
132	ZrNOâ€"Ag co-sputtered surfaces leading to E. coli inactivation under actinic light: Evidence for the oligodynamic effect. Applied Catalysis B: Environmental, 2013, 138-139, 113-121.	10.8	38
133	Innovative semi-transparent nanocomposite films presenting photo-switchable behavior and leading to a reduction of the risk of infection under sunlight. RSC Advances, 2013, 3, 16345.	1.7	43
134	Accelerated bacterial inactivation obtained by HIPIMS sputtering on low cost surfaces with concomitant reduction in the metal/semiconductor content. RSC Advances, 2013, 3, 13127.	1.7	8
135	RF-plasma pretreatment of surfaces leading to TiO2 coatings with improved optical absorption and OH-radical production. Applied Catalysis B: Environmental, 2013, 130-131, 65-72.	10.8	36
136	Effect of the spectral properties of TiO2, Cu, TiO2/Cu sputtered films on the bacterial inactivation under low intensity actinic light. Journal of Photochemistry and Photobiology A: Chemistry, 2013, 251, 50-56.	2.0	48
137	TiON and TiON-Ag sputtered surfaces leading to bacterial inactivation under indoor actinic light. Journal of Photochemistry and Photobiology A: Chemistry, 2013, 256, 52-63.	2.0	62
138	Innovative TiO₂/Cu Nanosurfaces Inactivating Bacteria in the Minute Range under Low-Intensity Actinic Light. ACS Applied Materials & Interfaces, 2012, 4, 5234-5240.	4.0	51
139	Design, testing and characterization of innovative TiNâ€"TiO2 surfaces inactivating bacteria under low intensity visible light. RSC Advances, 2012, 2, 8591.	1.7	26
140	Photocatalysis/catalysis by innovative TiN and TiN-Ag surfaces inactivate bacteria under visible light. Applied Catalysis B: Environmental, 2012, 123-124, 306-315.	10.8	38