

# Guillaume Falgayrac

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

883  
citations

430874

18  
h-index

477307

29  
g-index

43  
all docs

43  
docs citations

43  
times ranked

1538  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dexamethasone in osteogenic medium strongly induces adipocyte differentiation of mouse bone marrow stromal cells and increases osteoblast differentiation. <i>BMC Cell Biology</i> , 2015, 16, 9.	3.0	77
2	Simultaneous three-dimensional visualization of mineralized and soft skeletal tissues by a novel microCT contrast agent with polyoxometalate structure. <i>Biomaterials</i> , 2018, 159, 1-12.	11.4	70
3	Resolving the internal structure of individual atmospheric aerosol particle by the combination of Atomic Force Microscopy, ESEM-EDX, Raman and ToF-SIMS imaging. <i>Microchemical Journal</i> , 2014, 114, 89-98.	4.5	59
4	Surface Enhanced Raman Spectroscopy for Quantitative Analysis: Results of a Large-Scale European Multi-Instrument Interlaboratory Study. <i>Analytical Chemistry</i> , 2020, 92, 4053-4064.	6.5	50
5	New Method for Raman Investigation of the Orientation of Collagen Fibrils and Crystallites in the Haversian System of Bone. <i>Applied Spectroscopy</i> , 2010, 64, 775-780.	2.2	49
6	Comparability of Raman Spectroscopic Configurations: A Large Scale Cross-Laboratory Study. <i>Analytical Chemistry</i> , 2020, 92, 15745-15756.	6.5	46
7	Tissue-specific mineralization defects in the periodontium of the Hyp mouse model of X-linked hypophosphatemia. <i>Bone</i> , 2017, 103, 334-346.	2.9	38
8	Molecular interactions between zoledronic acid and bone: An in vitro Raman microspectroscopic study. <i>Bone</i> , 2010, 47, 895-904.	2.9	36
9	Chemistry at level of individual aerosol particle using multivariate curve resolution of confocal Raman image. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006, 64, 1102-1109.	3.9	32
10	Impaired mineral quality in dentin in X-linked hypophosphatemia. <i>Connective Tissue Research</i> , 2018, 59, 91-96.	2.3	32
11	Raman diagnostic of the reactivity between ZnSO <sub>4</sub> and CaCO <sub>3</sub> particles in humid air relevant to heterogeneous zinc chemistry in atmosphere. <i>Atmospheric Environment</i> , 2014, 85, 83-91.	4.1	30
12	New Insights on the Composition and the Structure of the Acellular Extrinsic Fiber Cementum by Raman Analysis. <i>PLoS ONE</i> , 2016, 11, e0167316.	2.5	29
13	Dual-energy computed-tomography-based discrimination between basic calcium phosphate and calcium pyrophosphate crystal deposition <i>in vivo</i> . <i>Therapeutic Advances in Musculoskeletal Disease</i> , 2020, 12, 1759720X2093606.	2.7	25
14	Heterogeneous chemistry between PbSO <sub>4</sub> and calcite microparticles using Raman microimaging. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2006, 64, 1095-1101.	3.9	23
15	Region specific Raman spectroscopy analysis of the femoral head reveals that trabecular bone is unlikely to contribute to non-traumatic osteonecrosis. <i>Scientific Reports</i> , 2017, 7, 97.	3.3	23
16	Unraveling the compromised biomechanical performance of type 2 diabetes- and Roux-en-Y gastric bypass bone by linking mechanical-structural and physico-chemical properties. <i>Scientific Reports</i> , 2018, 8, 5881.	3.3	23
17	Doses effects of zoledronic acid on mineral apatite and collagen quality of newly-formed bone in the rat's calvaria defect. <i>Bone</i> , 2016, 89, 32-39.	2.9	22
18	Defective Mineralization in X-Linked Hypophosphatemia Dental Pulp Cell Cultures. <i>Journal of Dental Research</i> , 2018, 97, 184-191.	5.2	22

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19	Multi-energy photon-counting computed tomography versus other clinical imaging techniques for the identification of articular calcium crystal deposition. <i>Rheumatology</i> , 2021, 60, 2483-2485.	1.9	20
20	Comparison of Two-Dimensional Fast Raman Imaging versus Point-by-Point Acquisition Mode for Human Bone Characterization. <i>Analytical Chemistry</i> , 2012, 84, 9116-9123.	6.5	17
21	Heterogeneous microchemistry between CdSO <sub>4</sub> and CaCO <sub>3</sub> particles under humidity and liquid water. <i>Journal of Hazardous Materials</i> , 2013, 248-249, 415-423.	12.4	17
22	Molecular alterations of bone quality in sequesters of bisphosphonates-related osteonecrosis of the jaws. <i>Osteoporosis International</i> , 2014, 25, 747-756.	3.1	17
23	Bone Samples Extracted from Embalmed Subjects Are Not Appropriate for the Assessment of Bone Quality at the Molecular Level Using Raman Spectroscopy. <i>Analytical Chemistry</i> , 2016, 88, 2777-2783.	6.5	16
24	Mandibular bone is protected against microarchitectural alterations and bone marrow adipose conversion in ovariectomized rats. <i>Bone</i> , 2019, 127, 343-352.	2.9	16
25	A Preliminary Investigation into the Effects of X-Ray Radiation on Superficial Cranial Vascularization. <i>Calcified Tissue International</i> , 2009, 84, 379-387.	3.1	13
26	No anti-angiogenic effect of clinical dosing regimens of a single zoledronic acid injection in an experimental bone healing site. <i>Bone</i> , 2010, 46, 643-648.	2.9	13
27	Rate constants for the decomposition of 2-butoxy radicals and their reaction with NO and O <sub>2</sub> . <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 4127.	2.8	11
28	Bone matrix quality in paired iliac bone biopsies from postmenopausal women treated for 12 months with strontium ranelate or alendronate. <i>Bone</i> , 2021, 153, 116107.	2.9	10
29	Particle-Particle Chemistry between Micrometer-Sized PbSO <sub>4</sub> and CaCO <sub>3</sub> Particles in Turbulent Flow Initiated by Liquid Water. <i>Journal of Physical Chemistry A</i> , 2012, 116, 7386-7396.	2.5	9
30	Mica Dust and Pneumoconiosis. <i>Journal of Occupational and Environmental Medicine</i> , 2013, 55, 1469-1474.	1.7	9
31	Noninvasive molecular identification of particulate matter in lungs by Raman microspectrometry. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 1484-1487.	2.5	8
32	Subchondral involvement in osteonecrosis of the femoral head: insight on local composition, microstructure and vascularization. <i>Osteoarthritis and Cartilage</i> , 2022, 30, 1103-1115.	1.3	7
33	Critical aspects of Raman spectroscopy as a tool for postmortem interval estimation. <i>Talanta</i> , 2022, 249, 123589.	5.5	7
34	Effects of high dose of zoledronic acid on superficial vascular network of membranous bone sites: an intravital study on rat calvarium. <i>Osteoporosis International</i> , 2010, 21, 1919-1925.	3.1	2
35	Laser preconditioning on cranial bone site: Analysis of morphological vascular parameters. <i>Lasers in Surgery and Medicine</i> , 2010, 42, 791-797.	2.1	2
36	Influence of collecting substrate on the Raman imaging of micron-sized particles. <i>Analytica Chimica Acta</i> , 2018, 1014, 41-49.	5.4	1

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37	Severity Level and Duration of Energy Deficit in Mice Affect Bone Phenotype and Bone Marrow Stromal Cell Differentiation Capacity. <i>Frontiers in Endocrinology</i> , 0, 13, .	3.5	1
38	Short-term high-dose zoledronic acid enhances crystallinity in mandibular alveolar bone in rats. <i>European Journal of Oral Sciences</i> , 2020, 128, 284-291.	1.5	0
39	Bisphosphonate influence on bone quality at molecular level: study of human jaw bone sequesters by Raman microspectroscopy. <i>Bone Abstracts</i> , 0, , .	0.0	0
40	Preliminary Protocol to Identify Parturitions Lines in Acellular Cementum. , 2022, , 234-248.		0