

# Peter D Claes

## List of Publications by Year in descending order

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Version: 2024-02-01

140  
papers

3,788  
citations

126907

33  
h-index

161849

54  
g-index

159  
all docs

159  
docs citations

159  
times ranked

3619  
citing authors

#	ARTICLE	IF	CITATIONS
1	Large-scale in-vivo Caucasian facial soft tissue thickness database for craniofacial reconstruction. <i>Forensic Science International</i> , 2006, 159, S126-S146.	2.2	215
2	Genome-wide mapping of global-to-local genetic effects on human facial shape. <i>Nature Genetics</i> , 2018, 50, 414-423.	21.4	205
3	Modeling 3D Facial Shape from DNA. <i>PLoS Genetics</i> , 2014, 10, e1004224.	3.5	190
4	Population genomics of Mesolithic Scandinavia: Investigating early postglacial migration routes and high-latitude adaptation. <i>PLoS Biology</i> , 2018, 16, e2003703.	5.6	174
5	Computerized craniofacial reconstruction: Conceptual framework and review. <i>Forensic Science International</i> , 2010, 201, 138-145.	2.2	115
6	Craniofacial reconstruction using a combined statistical model of face shape and soft tissue depths: Methodology and validation. <i>Forensic Science International</i> , 2006, 159, S147-S158.	2.2	113
7	Improved facial outcome assessment using a 3D anthropometric mask. <i>International Journal of Oral and Maxillofacial Surgery</i> , 2012, 41, 324-330.	1.5	104
8	Spatially dense 3D facial asymmetry assessment in both typical and disordered growth. <i>Journal of Anatomy</i> , 2011, 219, 444-455.	1.5	97
9	Insights into the genetic architecture of the human face. <i>Nature Genetics</i> , 2021, 53, 45-53.	21.4	94
10	MeshMonk: Open-source large-scale intensive 3D phenotyping. <i>Scientific Reports</i> , 2019, 9, 6085.	3.3	92
11	Association Between Prenatal Alcohol Exposure and Craniofacial Shape of Children at 12 Months of Age. <i>JAMA Pediatrics</i> , 2017, 171, 771.	6.2	88
12	Sexual dimorphism in multiple aspects of 3D facial symmetry and asymmetry defined by spatially dense geometric morphometrics. <i>Journal of Anatomy</i> , 2012, 221, 97-114.	1.5	84
13	Objective 3D face recognition: Evolution, approaches and challenges. <i>Forensic Science International</i> , 2010, 201, 125-132.	2.2	83
14	Investigating the case of human nose shape and climate adaptation. <i>PLoS Genetics</i> , 2017, 13, e1006616.	3.5	75
15	The influence of sex, age and body mass index on facial soft tissue depths. <i>Forensic Science, Medicine, and Pathology</i> , 2009, 5, 60-65.	1.4	70
16	Computerized craniofacial reconstruction using CT-derived implicit surface representations. <i>Forensic Science International</i> , 2006, 159, S164-S174.	2.2	69
17	Toward DNA-based facial composites: Preliminary results and validation. <i>Forensic Science International: Genetics</i> , 2014, 13, 208-216.	3.1	61
18	Statistical Shape Modeling of the Left Ventricle: Myocardial Infarct Classification Challenge. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2018, 22, 503-515.	6.3	61

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19	Are there vocal cues to human developmental stability? Relationships between facial fluctuating asymmetry and voice attractiveness. <i>Evolution and Human Behavior</i> , 2017, 38, 249-258.	2.2	59
20	Shared heritability of human face and brain shape. <i>Nature Genetics</i> , 2021, 53, 830-839.	21.4	57
21	A spatially-dense regression study of facial form and tissue depth: Towards an interactive tool for craniofacial reconstruction. <i>Forensic Science International</i> , 2014, 234, 103-110.	2.2	54
22	Modelling 3D craniofacial growth trajectories for population comparison and classification illustrated using sex-differences. <i>Scientific Reports</i> , 2018, 8, 4771.	3.3	53
23	Semi-automated Ultrasound Facial Soft Tissue Depth Registration: Method and Validation. <i>Journal of Forensic Sciences</i> , 2005, 50, 1-7.	1.6	52
24	A Comparative Study of 3-D Face Recognition Under Expression Variations. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2012, 42, 710-727.	2.9	50
25	Exploring the Underlying Genetics of Craniofacial Morphology through Various Sources of Knowledge. <i>BioMed Research International</i> , 2016, 2016, 1-9.	1.9	50
26	Statistical Shape Modeling of Skeletal Anatomy for Sex Discrimination: Their Training Size, Sexual Dimorphism, and Asymmetry. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 302.	4.1	47
27	Three-Dimensional Surface Imaging and the Continuous Evolution of Preoperative and Postoperative Assessment in Rhinoplasty. <i>Facial Plastic Surgery</i> , 2016, 32, 088-094.	0.9	46
28	Facial recognition from DNA using face-to-DNA classifiers. <i>Nature Communications</i> , 2019, 10, 2557.	12.8	46
29	Facial masculinity does not appear to be a condition-dependent male ornament and does not reflect MHC heterozygosity in humans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 1633-1638.	7.1	46
30	Bayesian estimation of optimal craniofacial reconstructions. <i>Forensic Science International</i> , 2010, 201, 146-152.	2.2	41
31	Statistically Deformable Face Models for Cranio-Facial Reconstruction. <i>Journal of Computing and Information Technology</i> , 2006, 14, 21.	0.3	38
32	Dysmorphometrics: the modelling of morphological abnormalities. <i>Theoretical Biology and Medical Modelling</i> , 2012, 9, 5.	2.1	36
33	The Facial Evolution: Looking Backward and Moving Forward. <i>Human Mutation</i> , 2013, 34, 14-22.	2.5	36
34	Marker-based watershed transform method for fully automatic mandibular segmentation from CBCT images. <i>Dentomaxillofacial Radiology</i> , 2019, 48, 20180261.	2.7	36
35	Robust and regional 3D facial asymmetry assessment in hemimandibular hyperplasia and hemimandibular elongation anomalies. <i>International Journal of Oral and Maxillofacial Surgery</i> , 2013, 42, 36-42.	1.5	35
36	Secondary Cleft Rhinoplasty. <i>Plastic and Reconstructive Surgery</i> , 2014, 134, 1285-1292.	1.4	31

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37	An overview of the latest developments in facial imaging. <i>Forensic Sciences Research</i> , 2019, 4, 10-28.	1.6	31
38	Phenotyping: Targeting genotype's rich cousin for diagnosis. <i>Journal of Paediatrics and Child Health</i> , 2015, 51, 381-386.	0.8	29
39	Evolution of Preoperative Rhinoplasty Consult by Computer Imaging. <i>Facial Plastic Surgery</i> , 2016, 32, 080-087.	0.9	29
40	Spatially dense morphometrics of craniofacial sexual dimorphism in 16-year-olds. <i>Journal of Anatomy</i> , 2016, 229, 549-559.	1.5	26
41	A Comprehensive Craniofacial Study of 22q11.2 Deletion Syndrome. <i>Journal of Dental Research</i> , 2017, 96, 1386-1391.	5.2	26
42	Measuring asymmetry from high-density 3D surface scans: An application to human faces. <i>PLoS ONE</i> , 2018, 13, e0207895.	2.5	25
43	SNPs Associated With Testosterone Levels Influence Human Facial Morphology. <i>Frontiers in Genetics</i> , 2018, 9, 497.	2.3	23
44	An investigation of matching symmetry in the human pinnae with possible implications for 3D ear recognition and sound localization. <i>Journal of Anatomy</i> , 2015, 226, 60-72.	1.5	22
45	Hunting for genes that shape human faces: Initial successes and challenges for the future. <i>Orthodontics and Craniofacial Research</i> , 2019, 22, 207-212.	2.8	22
46	Three-dimensional Morphing and Its Added Value in the Rhinoplasty Consult. <i>Plastic and Reconstructive Surgery - Global Open</i> , 2019, 7, e2063.	0.6	22
47	Sources of variation in the 3dMDface and Vectra H1 3D facial imaging systems. <i>Scientific Reports</i> , 2020, 10, 4443.	3.3	22
48	Six NSCL/P Loci Show Associations With Normal-Range Craniofacial Variation. <i>Frontiers in Genetics</i> , 2018, 9, 502.	2.3	20
49	Genetic variants underlying differences in facial morphology in East Asian and European populations. <i>Nature Genetics</i> , 2022, 54, 403-411.	21.4	20
50	Decoding the Human Face: Progress and Challenges in Understanding the Genetics of Craniofacial Morphology. <i>Annual Review of Genomics and Human Genetics</i> , 2022, 23, 383-412.	6.2	20
51	Rapid neural categorization of angry and fearful faces is specifically impaired in boys with autism spectrum disorder. <i>Journal of Child Psychology and Psychiatry and Allied Disciplines</i> , 2020, 61, 1019-1029.	5.2	19
52	Intersections of Epigenetics, Twinning and Developmental Asymmetries: Insights Into Monogenic and Complex Diseases and a Role for 3D Facial Analysis. <i>Twin Research and Human Genetics</i> , 2011, 14, 305-315.	0.6	18
53	HemoVision: An automated and virtual approach to bloodstain pattern analysis. <i>Forensic Science International</i> , 2015, 251, 116-123.	2.2	18
54	Quantification of mandibular sexual dimorphism during adolescence. <i>Journal of Anatomy</i> , 2019, 234, 709-717.	1.5	18

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55	Large-scale open-source three-dimensional growth curves for clinical facial assessment and objective description of facial dysmorphism. <i>Scientific Reports</i> , 2021, 11, 12175.	3.3	17
56	Targeting specific facial variation for different identification tasks. <i>Forensic Science International</i> , 2010, 201, 118-124.	2.2	16
57	Augmentation of linear facial anthropometrics through modern morphometrics: a facial convexity example. <i>Australian Dental Journal</i> , 2011, 56, 141-147.	1.5	14
58	How Different is Different? Criterion and Sensitivity in Face-Space. <i>Frontiers in Psychology</i> , 2011, 2, 41.	2.1	14
59	Objective Monitoring of mTOR Inhibitor Therapy by Three-Dimensional Facial Analysis. <i>Twin Research and Human Genetics</i> , 2013, 16, 840-844.	0.6	14
60	Estimating age and synthesising growth in children and adolescents using 3D facial prototypes. <i>Forensic Science International</i> , 2018, 286, 61-69.	2.2	14
61	The normal-equivalent: a patient-specific assessment of facial harmony. <i>International Journal of Oral and Maxillofacial Surgery</i> , 2013, 42, 1150-1158.	1.5	13
62	3D facial phenotyping by biometric sibling matching used in contemporary genomic methodologies. <i>PLoS Genetics</i> , 2021, 17, e1009528.	3.5	13
63	Genome scans of facial features in East Africans and cross-population comparisons reveal novel associations. <i>PLoS Genetics</i> , 2021, 17, e1009695.	3.5	13
64	Establishing a Multidisciplinary Context for Modeling 3D Facial Shape from DNA. <i>PLoS Genetics</i> , 2014, 10, e1004725.	3.5	12
65	Facial Characteristics and Olfactory Dysfunction: Two Endophenotypes Related to Nonsyndromic Cleft Lip and/or Palate. <i>BioMed Research International</i> , 2015, 2015, 1-8.	1.9	12
66	Spatially Dense 3D Facial Heritability and Modules of Co-heritability in a Father-Offspring Design. <i>Frontiers in Genetics</i> , 2018, 9, 554.	2.3	12
67	Exploring palatal and dental shape variation with 3D shape analysis and geometric deep learning. <i>Orthodontics and Craniofacial Research</i> , 2021, 24, 134-143.	2.8	12
68	Calculation of bloodstain impact angles using an Active Bloodstain Shape Model. <i>Journal of Forensic Radiology and Imaging</i> , 2014, 2, 188-198.	1.2	11
69	About Face: Matching Unfamiliar Faces Across Rotations of View and Lighting. <i>I-Perception</i> , 2017, 8, 204166951774422.	1.4	11
70	Pitfalls and Promise of 3-dimensional Image Comparison for Craniofacial Surgical Assessment. <i>Plastic and Reconstructive Surgery - Global Open</i> , 2020, Publish Ahead of Print, e2847.	0.6	10
71	Accurate reconstructions of pelvic defects and discontinuities using statistical shape models. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2020, 23, 1026-1033.	1.6	10
72	3D assessment of mandibular skeletal effects produced by the Herbst appliance. <i>BMC Oral Health</i> , 2020, 20, 117.	2.3	10

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73	Determination of pre-arthropathy scapular anatomy with a statistical shape model: part I—rotator cuff tear arthropathy. <i>Journal of Shoulder and Elbow Surgery</i> , 2021, 30, 1095-1106.	2.6	10
74	Effects of Male Facial Masculinity on Perceived Attractiveness. <i>Adaptive Human Behavior and Physiology</i> , 2021, 7, 73-88.	1.1	10
75	The Intersection of the Genetic Architectures of Orofacial Clefts and Normal Facial Variation. <i>Frontiers in Genetics</i> , 2021, 12, 626403.	2.3	10
76	A survey of U.S. public perspectives on facial recognition technology and facial imaging data practices in health and research contexts. <i>PLoS ONE</i> , 2021, 16, e0257923.	2.5	10
77	A Dymorphometric Analysis to Investigate Facial Phenotypic Signatures as a Foundation for Non-invasive Monitoring of Lysosomal Storage Disorders. <i>JIMD Reports</i> , 2012, 8, 31-39.	1.5	9
78	A Multivariate Approach to Determine the Dimensionality of Human Facial Asymmetry. <i>Symmetry</i> , 2020, 12, 348.	2.2	9
79	The PAX1 locus at 20p11 is a potential genetic modifier for bilateral cleft lip. <i>Human Genetics and Genomics Advances</i> , 2021, 2, 100025.	1.7	9
80	Semi-automated ultrasound facial soft tissue depth registration: method and validation. <i>Journal of Forensic Sciences</i> , 2005, 50, 1282-8.	1.6	9
81	Volumetric deformable face models for cranio-facial reconstruction. <i>Proc Int Symp Image Signal Process Anal</i> , 2005, , .	0.0	8
82	Symmetric surface-feature based 3D face recognition for partial data. , 2011, , .		8
83	Prehensile and non-prehensile tails among syngnathid fishes: what's the difference?. <i>Zoology</i> , 2017, 120, 62-72.	1.2	8
84	Separating positional noise from neutral alignment in multicomponent statistical shape models. <i>Bone Reports</i> , 2020, 12, 100243.	0.4	8
85	Statistically deformable face models for cranio-facial reconstruction. <i>Proc Int Symp Image Signal Process Anal</i> , 2005, , .	0.0	7
86	Monitoring of Therapy for Mucopolysaccharidosis Type I Using Dymorphometric Facial Phenotypic Signatures. <i>JIMD Reports</i> , 2015, 22, 99-106.	1.5	7
87	New Entries in the Lottery of Facial GWAS Discovery. <i>PLoS Genetics</i> , 2016, 12, e1006250.	3.5	7
88	Testing the face shape hypothesis in twins discordant for nonsyndromic orofacial clefting. <i>American Journal of Medical Genetics, Part A</i> , 2017, 173, 2886-2892.	1.2	7
89	Robust genome-wide ancestry inference for heterogeneous datasets: illustrated using the 1,000 genome project with 3D facial images. <i>Scientific Reports</i> , 2020, 10, 11850.	3.3	7
90	Facial asymmetry assessment in skeletal Class III patients with spatially-dense geometric morphometrics. <i>European Journal of Orthodontics</i> , 2022, 44, 155-162.	2.4	7

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91	Ischiofemoral impingement: the evolutionary cost of pelvic obstetric adaptation. <i>Journal of Hip Preservation Surgery</i> , 2021, 7, 677-687.	1.3	7
92	Facial morphology and growth following surgery for congenital midline cervical cleft patients. <i>International Journal of Oral and Maxillofacial Surgery</i> , 2018, 47, 437-441.	1.5	6
93	Multilevel principal components analysis of three-dimensional facial growth in adolescents. <i>Computer Methods and Programs in Biomedicine</i> , 2020, 188, 105272.	4.7	6
94	Mechanics of Psoas Tendon Snapping. A Virtual Population Study. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 264.	4.1	6
95	Fluctuating Asymmetry and Sexual Dimorphism in Human Facial Morphology: A Multi-Variate Study. <i>Symmetry</i> , 2021, 13, 304.	2.2	6
96	An exploration of adolescent facial shape changes with age via multilevel partial least squares regression. <i>Computer Methods and Programs in Biomedicine</i> , 2021, 200, 105935.	4.7	6
97	A textural feature based tumor therapy response prediction model for longitudinal evaluation with PET imaging. , 2012, , .		5
98	Automated facial reconstruction. , 0, , 203-221.		5
99	An automatic approach for classification and categorisation of lip morphological traits. <i>PLoS ONE</i> , 2019, 14, e0221197.	2.5	5
100	Three-dimensional facial capture using a custom-built photogrammetry setup: Design, performance, and cost. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2020, 158, 286-299.	1.7	5
101	Investigating automatic emotion processing in boys with autism via eye tracking and facial mimicry recordings. <i>Autism Research</i> , 2021, 14, 1404-1420.	3.8	5
102	Robust initialization for 2D/3D registration of knee implant models to single-plane fluoroscopy. , 2007, 6512, 86.		4
103	Hierarchical spectral clustering of MRI for global-to-local shape analysis: Applied to brain variations in Alzheimer's disease. , 2017, , .		4
104	The effect of manual lymphatic drainage on patient recovery after orthognathic surgeryâ€”A qualitative and 3-dimensional facial analysis. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , 2020, 130, 478-485.	0.4	4
105	The Effect of Autologous Alveolar Bone Grafting on Nasolabial Asymmetry in Unilateral Cleft Lip and Palate. <i>Journal of Craniofacial Surgery</i> , 2020, 31, 1687-1691.	0.7	4
106	3D Facial Matching by Spiral Convolutional Metric Learning and a Biometric Fusion-Net of Demographic Properties. , 2021, , .		4
107	Matching 3D Facial Shape to Demographic Properties by Geometric Metric Learning: A Part-Based Approach. <i>IEEE Transactions on Biometrics, Behavior, and Identity Science</i> , 2022, 4, 163-172.	4.4	4
108	Lack of Correlation between Facial Sexual Dimorphism, Fluctuating Asymmetry and Self-Perceived Attractiveness in Men and Women. <i>Symmetry</i> , 2020, 12, 236.	2.2	4

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109	Novel approaches in 3-dimensional facial profiling to establish facial aesthetic objectives in the treatment of facial dysmorphologies. <i>Annals of the Royal Australasian College of Dental Surgeons</i> , 2010, 20, 56-8.	0.0	4
110	Principal Polynomial Shape Analysis: a non-linear tool for Statistical Shape Modeling. <i>Computer Methods and Programs in Biomedicine</i> , 2022, 220, 106812.	4.7	4
111	Automated assessment of mandibular shape asymmetry in 3-dimensions. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2022, 161, 698-707.	1.7	4
112	TWIST1 interacts with $\beta$ -catenins during neural tube development and regulates fate transition in cranial neural crest cells. <i>Development (Cambridge)</i> , 2022, 149, .	2.5	4
113	A robust optimization strategy for intensity-based 2D/3D registration of knee implant models to single-plane fluoroscopy. , 2007, , .		3
114	3D facial analysis can investigate vaccine responses. <i>Medical Hypotheses</i> , 2012, 78, 497-501.	1.5	3
115	Human Centric Recognition of 3D Ear Models. <i>International Journal of Computational Intelligence Systems</i> , 2016, 9, 296.	2.7	3
116	Preprocessing of Heteroscedastic Medical Images. <i>IEEE Access</i> , 2018, 6, 26047-26058.	4.2	3
117	Impact of low-frequency coding variants on human facial shape. <i>Scientific Reports</i> , 2021, 11, 748.	3.3	3
118	Automated landmarking for palatal shape analysis using geometric deep learning. <i>Orthodontics and Craniofacial Research</i> , 2021, , .	2.8	3
119	U.S. Adult Perspectives on Facial Images, DNA, and Other Biometrics. <i>IEEE Transactions on Technology and Society</i> , 2022, 3, 9-15.	3.2	3
120	Multi-Scale Part-Based Syndrome Classification of 3D Facial Images. <i>IEEE Access</i> , 2022, 10, 23450-23462.	4.2	3
121	Static and Motion Facial Analysis for Craniofacial Assessment and Diagnosing Diseases. <i>Annual Review of Biomedical Data Science</i> , 2022, 5, .	6.5	3
122	Robust and Accurate Partial Surface Registration Based on Variational Implicit Surfaces for Automatic 3D Model Building. , 0, , .		2
123	Partial Surface Integration Based on Variational Implicit Functions and Surfaces for 3D Model Building. , 0, , .		2
124	No evidence for an association between facial fluctuating asymmetry and vocal attractiveness in men or women. <i>Evolutionary Human Sciences</i> , 2020, 2, .	1.7	2
125	Facial Morphological Changes Following Denture Treatment in Children with Hypohidrotic Ectodermal Dysplasia. <i>Pediatric Dentistry (discontinued)</i> , 2020, 42, 315-320.	0.4	2
126	LSP based comparison of 3D ear models. , 2014, , .		1



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127	Notice of Removal: Machine learning to understand anthropomorphic modulators of spatiotemporal myocardial mechanics. , 2017, , .		1
128	Olfactory function in patients with nonsyndromic orofacial clefts and their unaffected relatives. American Journal of Medical Genetics, Part A, 2018, 176, 2375-2381.	1.2	1
129	Unsupervised Diffeomorphic Surface Registration and Non-linear Modelling. Lecture Notes in Computer Science, 2021, , 118-128.	1.3	1
130	3D analysis of facial morphology in Dutch children with cancer. Computer Methods and Programs in Biomedicine, 2021, 205, 106093.	4.7	1
131	Bipolar Comparison of 3D Ear Models. Communications in Computer and Information Science, 2014, , 160-169.	0.5	1
132	A PLS Regression Framework for Spatially-dense Geometric Morphometrics to Analyze Effects on Shape and Shape Characteristics: Applied to the Study of Genomic Ancestry and Sex on Facial Morphology. , 2015, , .		1
133	Automatic Detection of Myocardial Infarction Through a Global Shape Feature Based on Local Statistical Modeling. Lecture Notes in Computer Science, 2016, , 208-216.	1.3	1
134	Quantification and visualization of the tooth extraction effects on face with spatially dense geometric morphometrics. Orthodontics and Craniofacial Research, 0, , .	2.8	1
135	Noise-robust assessment of SNP array based CNV calls through local noise estimation of log R ratios. Statistical Applications in Genetics and Molecular Biology, 2018, 17, .	0.6	0
136	Fluctuating Asymmetry, Sexual Dimorphism and Attractiveness in Humans: The Development towards a 3D Approach. Proceedings (mdpi), 2018, 2, .	0.2	0
137	Mapping the Spectrum of Prenatal Alcohol Effects with Dense Surface Models of the Face and Brain. Alcoholism: Clinical and Experimental Research, 2018, 42, 1880-1882.	2.4	0
138	Robust Generalized Superimposition Methods: A Comparison Using 3D Facial Images. , 2015, , .		0
139	A Phenotypically Driven Segmentation for 3-D Facial Morphology: Modularity of 3-D Faces Through Spectral Clustering. , 2017, , .		0
140	Bloodstain impact pattern Area of Origin estimation using least-squares angles: A HemoVision validation study. Forensic Science International, 2022, 333, 111211.	2.2	0