

INDEX

A

acid rain	89
adaptation	34, 52, 56, 81, 160-162, 202, 203, 206, 323
aging	37, 40, 47, 48, 179
Alpine-Himalayan orogenic belt	70, 227, 241, 266, 270-276, 278, 288, 293, 298
Altai-Sayan folding area	189, 191, 196
amino acid	15, 16, 24, 25, 35, 41-43, 81, 95, 99
alanine	16, 41, 42
arginine	16
asparagine	16
aspartate	16
cysteine	16
glutamate	16
glutamin	16, 99
glycine	16, 42, 99
histidine	16, 42
isoleucine	16, 42
leucine	16, 41, 42
lysine	16, 42
methionine	16
ornithine	41, 42
phenylalanine	16, 41, 42
proline	16, 41, 42
selenocysteine	81
serine	16, 42
threonine	16, 41, 42
tryptophan	16
tyrosine	16, 41, 42
valine	16, 42
ammonia	75, 89, 334, 335
analgesia	117, 134
antioxidant	99, 121

apartment building	172, 175, 176, 178
archaeological culture	272, 278
Andronovo	278
Belogradovskiy	294
Chernolesskaya	294
Chernyakhov	295
Corded Ware	293, 294
Cucuteni-Tripolie	277, 278, 280, 293, 294, 296
Globular Amphorae	293, 294
Kura-Arax	277, 278, 280, 283
Kurgan	278, 293
Lusatian	294
Milograd	295
Przeworsk	294
Trzciniec-Komarovo	294, 296
Yamnaya	278, 293
Zarubintsy	294, 295
Argonauts	291
artist	116, 128, 130
atmosphere	89, 122, 194, 288, 309, 311, 313, 315, 327, 329, 331, 332, 334
aerosol	70, 76, 88, 101, 118, 321, 329
air dust	70, 78, 321
air ion	99, 179, 180
air ionization	218
anticyclone	328
corona discharge	218
cyclone	329, 330, 332, 333
hurricane	308, 329, 336, 337
Emmy	329, 330
Frances	329, 330
Katrina	308
inter-tropical convergence zone	311
power	121, 122
pressure	146, 190, 193, 327-329, 331-333
sferics	119
thunderstorm	193, 194
Ayurveda	90

B

basin	
Afghan-Tajik	274, 278
Black Sea	227, 228
Cuu Long	12
Derbent	262, 265, 266

Kurai	148
Lower Kura	262, 263, 265
Middle Caspian	260, 263
Powder	75
Sistan	278, 287
South Caspian	260, 262-268
Tarim	274, 278
West Turkmen	73
biologically active substance	95, 97-99, 147
bioproductivity	283, 335, 336
biosynthesis	34, 39
botany	
<i>Astragalus penduliflorus</i>	146
azonal biocenosis	146
blue honeysuckle (<i>Lonicera caerulea</i> L.)	147-180
botanical survey	152
fruit	
bitterness	147, 155, 156, 158, 162
shape	155-160, 162
size	147, 155, 160-162
hallucinogenic plant	238
buried paleovalley	170, 180

C

cape	
Ai-Thodor	222
Aya	225
Chersonese	229, 236
Dimitraki	223
Fiolent	222, 229, 236, 237
John	222
Lucullus	230, 236,
Meganome	230, 231, 234
Sarych	228, 230
St. Elijah	225
Vinogradny	222
carbon dioxide	5, 7, 26, 86, 87, 89, 90, 92, 93, 95, 170, 180, 288, 318, 326, 332, 333
dry bath	89
expired	41, 45, 47
volcanic gas	55, 88, 89, 186
cave town	222, 225
Chilter-Marmara	222, 234
Chufut-Kale	222
Kachi-Kalyon	222, 234

Mangoup-Kale	222, 234
Shuldan	222, 234
Tepe-Kermen	222, 233, 234
charcoal	294
chemical element	
abiogenic	35, 45
abiogenic competitor	35, 83
abundance	36, 37
biogenic element	34, 35, 37, 40, 49, 50, 56
Chernobyl accident	84
city, settlement (ancient, medieval)	
Acra	290, 291
Ak-Mechet	224, 233
Alexandria	278, 287
Babylon	278
Bakchisarai	222-224, 230, 233, 238
Bekhura	273
Caffa	223, 224, 226, 238
Calamita	222, 225, 229, 233, 235, 236
Chersonese	222, 225, 238
Ciudad Vieja	308
Constantinople	273, 278
Derbent	278, 289
Eski-Kyrym	224
Genoese colony	226
Geoksjur (oasis)	278, 280, 283
Gezlev	224, 233
Illyrian Epidaurus	278, 287
Jericho	278, 287
Jerusalem	273, 278
Kara Sou Bazaar	224, 233
Mangasea	296
Nymphaeum	290, 291
Olvia	278, 290, 291, 295
Panticapaeum	290, 291
Patrae	290, 291
Phanagoria	290
Rome	287, 295
Thebes	280
Troy (Wilusa)	278, 281, 285, 286
city, town (modern)	
Alushta	230, 231, 234
Antofagasta	80, 81
Aswan	97
Baden-Baden	86
Bakchisarai	222-224, 230, 233, 238
Baku	278, 289
Balaclava	229, 236
Bancroft	116, 124-132
Baranovichi	86

-
- | | |
|--------------------------------|---|
| Belogorsk | 224 |
| Belokurikha | 86, 87 |
| Cairo | 219 |
| Derbent | 278, 289 |
| Eupatoria | 95, 224, 226, 230 |
| Gatchina | 176, 177 |
| Gorno-Altaysk | 187, 188, 191, 193, 195, 203-205 |
| Grado | 97 |
| Hveragerði | 94 |
| Inkerman | 222, 225, 235 |
| Jáchymov | 86 |
| Jalalabad | 86 |
| Karlovy Vary | 86 |
| Kerch | 231, 235, 290 |
| Kosh-Agach | 187, 188, 190-192, 196-199, 201, 202 |
| Marmora | 116, 125, 132-134, 219 |
| Petrozavodsk | 98 |
| Pyatigorsk | 87 |
| Rotorua | 89, 95 |
| Safaga | 97 |
| Saint Petersburg | 118, 171-177 |
| Saki | 95 |
| Sevastopol | 222, 224, 229, 230, 232, 236 |
| Simeiz | 222, 234 |
| Simferopol | 230-232 |
| Solnhofen | 336 |
| Stary Krym | 223, 224, 230, 233 |
| Sudak | 223, 228-230, 232, 233, 238 |
| Theodosia | 95, 223, 224, 226, 230, 232, 234 |
| Tskhaltubo | 86 |
| Upper Massandra | 223 |
| Vyborg | 178, 179 |
| Yalta | 222, 228, 230 |
| civilization | |
| Crete-Mycenaean | 278, 280 |
| Elam | 278, 281 |
| Indus (Harappa) | 278, 279, 283, 285 |
| Maya | 308 |
| Minoan | 280, 308 |
| Sumerian | 277-279, 283 |
| climate | |
| aridization | 279, 283-285, 287-290, 293, 295 |
| change | 258, 267-269, 272, 279, 283, 285, 289, 290, 292, 293, 296, 298, 309 |
| El Niño (Southern Oscillation) | 279, 283, 316, 331-334, 336 |
| El Pintor | 334 |
| evaporation | 259, 290, 292, 332 |
| fluctuation | 325 |
| global warming | 309, 327-329, 336 |
| humidification | 284, 285, 288, 289, 297 |

Kyoto Protocol	309
La Niña	332, 334
Little Ice Age	279, 287, 295
Montreal Protocol	309
North Atlantic Oscillation	328
coalmine	327
compound	
nitrogen	15
oxygen	5, 14, 15
oxygen-nitrogen	15
phosphoric	15
cosmic rays	50, 54, 312
Crimean Meganticlinorium	227
current	
Cromwell	331, 332
Gulf Stream	296
Humboldt (Peruvian)	316, 331, 332, 334, 335

D

degassing	4, 10, 11, 13, 88, 162, 309-311, 315, 316, 321, 323, 324, 326-336
center	309, 312, 321, 323-326, 329
fluid	73, 75, 101, 179, 180
hydrogen	4, 55, 100, 311, 317, 319, 321, 323, 328, 336
methane	317, 323, 330
Deluge	282
dibenzo- α -pyrone	99
diet	37, 40, 43-45
paleodiet	44
vegetarian	44
disease, disorder	
blood	197-201
hemochromatosis	47
leukemia	47, 48, 170, 323
cardiovascular	70, 80, 86, 121, 186, 204
arteriosclerosis	93
atherosclerosis	77, 78
hypertension	47, 93, 201-205
ischemic cardiac disease	47, 89, 177, 180
myocardial infarction	89, 118, 119
vegetative vascular dystonia	202, 205
cerebrovascular	119, 199, 201, 202
headache	84, 89, 119, 120, 203
migraine	119, 120
stroke	119, 203, 204

-
- climacterium 92
 - dental
 - caries 77, 83
 - fluorosis 77, 88
 - dermatological 70, 86, 92, 94, 96
 - psoriasis 95, 97
 - skin lesion 80, 98
 - endocrine 186, 196, 199, 201, 203
 - diabetes mellitus 46, 47, 177, 204
 - dysthyreosis 84
 - goiter 84
 - hyperthyreosis 46
 - hypothyreosis 46, 47
 - obesity 46, 47
 - thyrotoxicosis 84
 - epidemics 122, 268, 308
 - epilepsy 130, 202, 205, 217, 218, 239
 - aura 217
 - complex partial 128
 - eye 88, 147, 320
 - cataract 46, 88, 320
 - fatigue 79, 84, 118
 - gall bladder 92
 - cholecystitis 93
 - cholelithiasis 93
 - hypokinesis 92
 - gastroenteric 186, 204, 205
 - gastritis 96, 199, 201
 - gastro-esophageal reflux 92
 - peptic ulcer 46, 47, 88, 96, 204
 - genetic 76, 323
 - ectrodactyly 323
 - nanism 47
 - Wilson's disease 76
 - genitourinary 70, 100, 196, 197, 199-201
 - Balkan endemic nephropathy 75
 - geophagia 94
 - immune 239
 - autoimmune 239, 240
 - deficiency 99, 239
 - suppression 79, 85, 179, 309, 320
 - infectious 70, 186, 196, 199, 201, 337
 - AIDS 82, 323
 - African trypanosomiasis 81
 - coccidioidomycosis 75, 186
 - intoxication 85, 88, 216
 - mental 70, 80, 186, 196, 218, 239
 - bipolar disorder 49
 - Jerusalem syndrome 219
 - lunacy 123

post-traumatic stress disorder	186, 201-203
psychoses	217
musculoskeletal	70, 86, 92, 96, 196, 197, 199-201
arthritis	94, 96, 97
arthroses	96
chondrodystrophy	83
multiple sclerosis	86, 170
osteomyelitis	46
osteoporosis	77, 78, 83, 92, 100
post-paralytic atrophy	46
rheumatism	94, 97
rickets	83, 320
skeletal fluorosis	77, 88
neoplasms	70, 196, 197, 200, 201
cancers	46, 51, 75, 80, 82, 84, 85, 170, 172, 173, 175-178, 180, 239
lung cancer	86
melanoma	320
nonmelanoma skin cancer	320
nervous	70, 86, 92, 96, 98, 100, 196, 197, 200, 201, 219
neuralgia	93, 95, 96
nutritional disorder	49, 76, 89
alkaline disease	82
arsenical keratosis	80
arsenicosis	80
black foot	80
cobalt deficiency	78, 79
cretinism	84
endemic	54, 70, 71, 75, 85, 88, 101, 186
endemic goiter	84
enzootic marasmus	79
fluorine deficiency	77
iodine deficiency	84
Kashin-Beck disease	82, 83
Keshan disease	82
pernicious anemia	78
selenium deficiency	81-83
silicon deficiency	78
strontium rickets	83
zinc deficiency	79
plant morphose	172, 177-179
respiratory	70, 88, 89, 99, 186, 196, 197, 200, 201, 204
acute respiratory virus infection	202, 204, 205
asphyxia	88, 89
bronchitis	99, 100, 177
pneumonia	81, 202, 204, 205
pulmonary edema	88, 89
silicosis	78, 88
tuberculosis	78, 100

trauma	204, 205
bone fracture	100
closed head injury	134
dome	
Kara-Bogaz	260
Sarlyk	100
dowsing	172-174
dynamic equilibrium	55

E

Earth	
crust	4-6, 8, 11-13, 25, 26, 36, 37, 52, 75, 76, 170, 194, 218-220, 238, 241, 260-265, 267, 309, 326
inner core	13, 336
mantle	4, 5, 7, 11, 13, 55, 262, 264, 265, 267, 298, 299, 309, 317, 325, 326, 336
Moho surface	263, 267
outer core	13, 298
rotation	268, 271, 272, 297, 298, 325
South Pole	315
Earth Probe satellite	314, 319
East European Platform	75, 78, 97, 171, 227, 272, 293, 296, 298
electromagnetic field	118, 133, 173, 191, 200, 216, 219, 238
emergency call	195, 197, 202-206
enhanced permeability of the crust	170, 173, 174, 178, 194, 218, 220, 238, 241
endogenous activity	4, 55, 313
enzyme	35, 39, 51, 52, 76, 79-81, 124
cytochrome c oxidase	124
glutamate dehydrogenase	124
glutathione peroxydase	81
glycine reductase	81
phenylalanine ammonia-lyase	146
pyruvate dehydrogenase	80
zinc metalloenzyme	79
epigenesis	73, 75
essential oil	99
evolution	4, 5, 7, 10, 11, 15, 23, 24, 26, 27, 37, 39, 50, 52, 55, 56, 73, 83, 101, 122, 272, 288, 308, 309, 318

F

fasting	216
fatty acid	99
lauric	99
myristic	99
fault	
active	54, 70, 75, 86, 101, 146, 147, 160-162, 170, 178, 179, 190, 194, 205, 220, 236, 238, 241, 260, 261, 263, 292, 325
Baratal	152, 161, 162, 190
Belbek	228, 233
Charysh-Terekta	190
Dead Sea Transform	277, 287
Demerji	228, 233
dip-slip	227, 229, 236
intersection	172, 175, 178, 179, 220, 228, 233, 234, 236, 323, 324, 329
Kacha	228, 233
Kara Dagħ	228, 233
Kastropol	228, 233
Kuchuk-Lambad	228, 233
lineament	194, 218, 221, 238
Moinaki	228, 233
Molbai	228, 233
North Aegean	292
oblique	227, 335
Sasyk	228, 233
Shapshal	189, 190
South Coast	228
Sudak-Agarmysh	228, 233
Teletskoe	189, 190
thrust	189, 190, 263
Yalta	228
fault zone	75, 99, 101, 125, 146, 152, 156, 160-162, 170, 178-180, 195, 200, 202, 206, 227, 232, 238, 263, 316-318, 335
East Anatolian	278, 287
Eupatoria-Skadovsk	228, 233, 234
Foothill Crimean-Caucasian	228, 231, 233, 234
Khanarassar	283
Korsak-Theodosia	228, 234
North Anatolian	278, 287, 292
Northern Balkhan	260
Orekhovo-Pavlograd	228, 233
Pambak-Sevan	283
Salgir-Oktyabrskoe	228, 231, 234
Southern Balkhan	260

finch	324
flavonoid	
flavonol	162
leucoanthocyanin	147
foredeep	
Derbent	260, 263, 264, 266, 267
Mesopotamian	264
forensics	44
forest	
fire	194, 308, 329, 331
mixed coniferous	149, 151
moss cover	151
taiga ecozone	160, 161
understory	
herbs	151
shrub cover	151
fulvic acid	99

G

gas	
burst	308, 309, 327
emanation	146, 161, 170, 172, 179, 186, 200, 206, 238, 317, 318, 334
solubility	88, 332, 334
geochemical	
anomaly	70, 76, 79, 84, 101, 146, 161, 170, 186, 200, 238, 325, 326, 329
barrier	75, 309
halo	70, 73, 77, 89, 101, 161, 172, 174, 179
geodynamic activity	70, 75, 146, 258, 272
geomagnetic	
activity	116, 118-124, 131, 134, 218, 240, 298, 312
anomaly	55, 116, 125, 126, 131, 152, 155, 156, 158, 159, 179, 188-191, 194, 195, 197, 198, 200, 205, 218-220, 230-232, 234-236, 241, 312, 313
Brazilian	55, 313
Canadian	55, 313
Chukchi-Aleutian	313
Siberian	55, 313
excursion	55, 324, 326
Blake	55, 324
Jamaica	55
Mungo	55, 324

field	4, 13, 54, 55, 116-118, 120, 134, 150, 152, 186, 190, 204, 218, 220, 231, 236, 240, 241, 272, 297, 298, 312, 313
gradient	130, 174, 179, 180
K-index	118, 119, 122
magnetometric survey	150, 152, 219
precession	298, 325, 334
reversal	4, 5, 11, 54, 55, 313, 324, 326
Gauss-Matuyama	55
storm	119, 121, 122, 131, 134, 190, 218-220, 241, 312
geopathogenic zone	170, 171, 173, 174
geopsychology	115, 116, 120, 122-124, 131, 135
geothermal	
activity	88, 101
field	89, 94, 95, 238, 329
Námafjall	94
Theistareykir	94
glacier	271, 279, 282, 284, 287, 288, 296, 314
Amery	314
Lambert	314
graben	
Chernaya River	229, 233, 236
North Bay	229, 233, 236
Oslo	328
gravity	123, 171, 186
greenhouse gas	288, 309, 332
Grenville geologic province	125, 132
guano	331, 335
gulf, bay	
California	329, 332
Finland	171
Kara-Bogaz-Gol	259, 278
Mexico	12
Persian	278, 279, 284, 336
Taman	291
Walvis	334-336

H

heavy metals	98, 170, 173, 175, 176, 179
hemoglobin	44, 124
historical concept	
Oder-Dnieper	294, 295
Vistula-Oder	294
historical crisis	272, 277, 282, 292, 293, 296, 298

-
- historical period
 - Chalcolithic 278, 293, 296
 - Classical 232, 273, 291, 292
 - Iron Age 279, 280, 294, 296
 - Bronze Age 278, 280, 293, 296
 - Medieval 278, 281
 - Migration 281
 - Time of Distemper 295, 296
 - homeopathy 81, 90
 - homeostasis 42, 56, 180
 - homicide 123
 - hormesis 50, 51, 52, 85, 88, 178, 201, 240
 - hormone 76, 84, 95
 - adrenocorticotropic 239
 - cholecystokinin 92
 - melatonin 117, 121
 - thyroxin 83
 - hot spot 315, 323, 324
 - human ancestor
 - aegyptopithecus 321
 - anthropoid 54
 - hominid 54, 321, 325
 - Homo*
 - erectus* 55
 - habilis* 323
 - Neanderthal 324
 - human organism 40-42, 48, 49, 78, 79, 81, 85, 88, 89, 92, 99, 101, 173, 179, 197, 202, 206, 238
 - adrenal gland 46, 117, 203
 - aorta 46, 77
 - blood 35, 40-43, 45, 47, 51, 78, 92, 119
 - erythrocyte 43, 47-49
 - leukocyte 117
 - lymphocyte 123, 239
 - plasma 41, 42, 46
 - bone 40, 43-47, 50, 77, 78, 82-85, 89
 - collagen 43, 46
 - brain 35, 40, 41, 45, 46, 54, 55, 78, 117, 120, 121, 123, 131, 132, 134, 216, 218-220, 239-241
 - amygdala 120, 217
 - corpus callosum 217
 - frontal cerebral cortex 216
 - hippocampal commissure 217
 - hippocampus 217
 - hypothalamus 123
 - left hemisphere 216, 239
 - neuron 45, 120, 123, 124, 216, 217
 - pineal organ 117, 119, 217
 - right hemisphere 120, 121, 131, 216, 217, 239
 - temporal lobe 216

duodenum	92
eye	46, 88, 89, 121
fingernail	43-45
keratin	43
gall bladder	92, 96
bile	92
hair	41-46, 49, 54, 77-80, 89
keratin	41, 43
heart	40, 41, 46, 51, 79, 82
diastolic pressure	89, 118
rate	119
systolic pressure	89, 118
immune system	51, 85, 178, 239, 320
kidney	40, 41, 46, 96
liver	40, 41, 43, 46, 78, 80, 82, 84, 96
lung	40, 41, 46, 78, 89
muscle	40, 41, 43, 46
nervous system	78, 92, 99
parasympathetic	92, 121
sympathetic	121
vegetative	219
pancreas	41, 46, 78
saliva	42, 84
sebaceous gland	42
cerumen	42
spleen	40, 41, 46, 84
sweat	42
thymus	40, 41
thyroid	41, 46, 83, 84
tooth enamel	44, 45, 77
urine	42, 45, 47
humic acid	95, 96
hydrocarbon	4-18, 21, 23-26, 75, 76, 95, 100, 179, 326, 336
acetylene	24, 26
alkane	8, 9, 12, 179
alkene	9, 179
asphalt	10, 12, 95, 101
asphaltite	10
benzene	24, 26
bitumen	8, 10, 75, 95, 96, 100
butane	8, 9
coronene	24, 26
ethane	5, 7-10
ethylene	9
kerogen	8
methane	5, 7-9, 26, 311, 317, 323, 327, 330, 332, 334, 336
ozokerite	101
polycyclic aromatic	75, 76, 179
polyyne	26

pool	9
propane	5, 8, 9
propylene	9
thermogenic	9
toluene	9
hydrogen	4-12, 15, 26, 35, 42, 47, 93, 309-311, 315-317, 319, 323, 326, 327, 332, 333, 336
-air mixture	327
cycle	310, 311
flux	326
proton gas	179
sulfide	88-90, 92, 95, 170, 186, 334, 335
hydrothermal	
field	9, 94, 317
Lost City	9
Rainbow	9
vents	12
hyperventilation	216
hypoxia	128, 216

I

<i>Ichthyostega</i>	54
ideomotor effect	173, 174
immunoglobulin	122
Inca mummies	80
infrared flux	309, 332, 333, 336
infrasound	204, 206
island(s)	
Azores	89, 95, 328
Buckle	313
Crete	280, 285, 287, 308
Elba	235
Galapagos	323, 324, 331
Greenland	5, 295, 328
Hard	314
Hawaiian	315, 316, 324
Iceland	93, 94, 288, 295, 315, 316, 328
Java	54, 308
Kerguelen	314
Kunashir	93
Kuril	93, 147, 335
Melanesia	323
New Guinea	323, 331
Novaya Zemlya	296
Sakhalin	147

Sicily	285
South Shetland	313
Sunda	317, 321
Tristan da Cunha	324, 335
isotope	
abundance	36, 37
atomic mass	39, 40
biological fractionation	34, 37
composition	34, 37-49, 51, 56
δ notation	56, 57
deuterium	42, 49
effect	
kinetic	34, 38, 39, 56
magnetic	38, 39, 46, 56, 118
thermodynamic	38, 39, 56
electric quadrupole moment	36, 37
fractionation	34, 37-40, 43, 46, 47, 49, 56
heavy water	34, 37, 48, 49
magnetic dipole moment	36, 37
nuclear spin	36, 37
radioisotope	37, 48, 50, 84
ratio	
calcium	43, 47
carbon	7, 10, 40-47, 49, 57, 101
copper	43
helium	315, 317, 321, 329
hydrogen	38, 42-45, 47
iron	43, 45, 47
lead	45
nitrogen	41-46, 49
oxygen	38, 43-45
potassium	40, 46
strontium	45
sulfur	44
zinc	47
shift	45-47, 49, 56
stable	34, 35, 37, 40, 43, 48, 49, 56
tracer	48, 49
triplet-singlet transformation	39

K

ketone acid	81
Kokorya dacitic-rhyolitic complex	150, 152

L

lake	
Aji Gol	95
Baikal	269, 317, 336
Didvana	284
Kuril	335
Moinaki	95
Onega	98
Saki	95
Sarykamysh	278, 284, 287
Sevan	273, 283-285, 287, 288
Turcana	321
Victoria	321
landslide	75, 186, 269, 292, 308, 336

M

magmatism	5, 6, 11-13, 23, 90, 146, 189, 218, 220, 241, 326, 336
intrusion	11, 12, 125, 179, 188-190, 194, 195, 197, 198, 200, 201, 205, 218, 231
magma chamber	4, 7, 9, 13,
magnetic field	39, 116, 117, 124, 127, 131, 132, 197, 217-219, 236
massive	
Kalguty	190, 197
Lovozero alkaline	5
Yustyd	190, 197
megalith	219, 293
metabolism	35, 39, 41, 43, 44, 47, 55, 77-79, 81, 83, 92, 94, 98, 124, 239, 320
microorganism	
<i>Aspergillus niger</i>	51
blue-green algae	336
<i>Coccidioides immitis</i>	75, 186
diatom	78, 95
enterococci	99
<i>Escherichia coli</i>	51
penicillia	96
Protozoa	51, 95
staphylococci	99
<i>Staphylococcus aureus</i>	97
streptococci	99

<i>Streptomyces violaceus</i>	98
mid-ocean ridge	12, 309, 311, 313, 317
Central Indian	312, 313
Circum-Antarctic	312, 313
East Indian	312, 315
East Pacific Rise	312-317, 323, 332, 334, 335
Juan de Fuca	8, 9, 12
Mid-Atlantic	9, 312-315, 324, 328-330, 335
Naska	335
West Pacific	312, 313
minerals, rocks	
anhydrite	98
arcanite	101
arsenolamprite	80
arsenopyrite	80
autunite	84
berzelianite	81
bischofite	98
black sands	96, 97
bruggenite	83
calcite	98
carnallite	98
carnotite	84
carrollite	78
cattierite	78
celestite	82
chalcedony	97
chalk	101
chalkomenite	81
clausthalite	81
clay	70, 78, 90, 94, 96
cobaltite	78, 80
coffinite	84
cubic silicon carbide	101
dietzeite	83
dopplerite	95
erythrite	80
feldspar	77, 97
felsite	84
flint	70, 77, 78, 90, 97, 98
fluorapatite	77, 101
fluorite	76, 77
granite	5, 12, 84, 86, 125, 132, 178, 189, 197
graphite	7, 8, 101
gypsum	75, 95, 98, 101
hakite	81
halite	75, 81, 98, 99
hatchettite	101
hemimorphite	79
hydromica	267

hydrozincite	79
kaolinite	94
kimberlite	5, 10, 317
klockmannite	81
lautarite	83
lignite	75
linneite	78
lollingite	80
magnetite	18-20, 116, 132-134, 189, 219
mica	77, 97
mimetite	80
monazite	96, 97
montmorillonite	267
opoka	78
orpiment	80
palygorskite	94
pararsenolamprite	80
penroseite	81
pyrite	80
pyrrhotite	18-20
quartz	77, 96, 97
realgar	80
rhyolite	84
rutile	96
sand	70, 90, 96, 97
shungite	10, 70, 90, 98
silica	77, 78, 95, 97
silicate minerals	77, 78
skutterudite	78, 80
smectite	94
smithsonite	79
sphalerite	79
strontianite	82
sylvinite	99
sylvite	98, 99
talc	94
tausonite	82
tiemannite	81
tripoli	78
uraninite	84
zeolite	78
zircon	96, 97
mitochondria	55, 119
monarch	
Amenhotep III	283
Argishti I	273, 285
Boris Godunov	295
Chosroes	289
Darius	292
Hattusilis III	280

Ivan IV the Terrible	295
Kublai	308
Merneptah	280, 281
Peter I	296
Ramesses II	280
Ramesses III	280, 281
Svyatoslav	289
Uzziah	273
Vladimir	289
monastery	
Armenian Apostolic	223, 226, 231, 233, 234
Byzantine	222, 225, 226, 231, 233-236, 238
Catholic	223, 226, 231
Chilter-Koba	222, 233
Dormition of the Mother of God	222
Franciscan monastery	223, 233
kinovia	225
Mother of God Hamchak	223
Mother of God of Blachernai	222, 233
Russian Orthodox	221, 224, 226, 231-233
skete	222, 223, 225, 231, 233
St. Anastasia	222, 223
St. Anton	223
St. Appearance Rock	236, 237
St. Clement	222
St. Dimitri	223
St. Elijah	222, 223
St. George	223, 231
St. George at Cape Fiolent	222, 225, 234, 236, 237
St. Gregory the Illuminator	223
St. John	222
St. John the Baptist	223
St. Menas	223
St. Nicolaes	223
St. Peter	223
St. Salvator	223, 233
St. Simeon	241
St. Sophia	222
St. Stephan	223, 234
St. Stephan of Surozh at Kiziltash	224, 233
St. Thoros	223
St. Trinity-Paraskeva Convent	224, 233
St. Vladimir	224, 233
Sts. Apostles	223
Sts. Kozma and Damyan	224, 233
Surb-Khach	223, 226
monosaccharide	16, 18, 21, 25
deoxyribose	16-20, 24
ribose	16-19, 21, 24
Moon	123, 124, 297, 319, 327, 334, 336

morphine	117, 134
mount	
Agarmysh	223
Ai-George	223
Ai-Thodor	223, 234
Ararat	283
Ayu Dagh	223, 234
Byrd	313
Demerji	223
El Chichón	319
Erebus	313
Freeman	313
Kara Dagh	223, 231, 233, 234
Kilimanjaro	328
Kordon-Oba	223
Mammoth	89
Melbourne	313
Morning	313
Panea	222
Perchem	223, 233
Pinatubo	319
Sapoune	222
Sokol	223, 233
Terror	313
mountains	
Alborz	262, 263, 274, 278
Allah Dagh	262, 274, 278
Alps	93, 288
Altai	99, 100, 147, 148, 155, 156, 159, 161-163, 187, 189-194, 203, 205, 219
Andes	288, 321, 331
Armenian Highland	287
Balkans	278
Binalud	274, 278
Carpathians	278, 293
Caucasus	93, 99, 287, 288
Crimean	
Great Caucasus	260, 262, 263, 274, 277, 278, 287
Hindu Kush	99, 274, 278
Karakorum	274, 278
Khibiny	319, 327
Kopet Dagh	274, 278
Kun Lun	274, 278
Lesser Caucasus	274, 277, 278, 279, 284
Pamirs	93, 274, 278
Rocky	329
Taurus	288
Tibet	274, 278, 288
Tien Shan	274, 278
Urals	82, 99, 293

Zagros	264, 274, 277-279, 283, 287
<i>Mus musculus</i>	325
Muses	120
mutation	47, 51, 54-56, 86, 101, 180, 309, 320, 323-325, 336
CMP-N-acetylneuraminic acid hydroxylase	55
genomic instability	52, 56
karyotypic diversification	325
microcephalin	55
mutagenic agent	54, 161, 163, 176, 325
myosin heavy chain	55
Y chromosome	55
mycetin	98
mystics, saints	
Moses	281
Saint George the Conqueror	236
Saint Simeon the Stylite	241
Sri Ramakrishna	240
Swami Vivekananda	240
Zechariah	273

N

natural selection	24, 52, 56, 161, 163, 180
intrapopulation variability	147, 160, 161
introgressive hybridization	160, 161
micropopulation	147, 156, 158, 160, 161
speciation	37, 50, 52, 56, 101, 146, 147, 161, 324, 325
species extinction	53, 54
trait	
dominant	147
morphometric	155, 159, 160-162
recessive	147, 162, 163
neurophysiology	221
action potential	119
axonal connection	128
burst-firing	124, 134
dendritic spine	128
electroencephalography	240
glial cell	120
ion channel	124
Larmor model	118
long term potentiation	117
magnetic resonance imaging	240
microseizure	217, 240
neuron chain	216

photon emission tomography	240
quantitative electroencephalography	121
theta-burst	117
transcranial exposure	217
T-type calcium channel	124
nucleic acid	15, 16, 18-20, 24, 79
DNA	15, 18-21, 23, 24, 35, 45, 55
damage	86, 309, 320, 323
repair	51, 52, 56
RNA	15, 18, 19, 21, 23, 24, 35
nucleobase	
adenine	16-21, 23, 24
cytosine	16-21, 23
guanine	16-20, 24
thymine	16, 17, 20, 21, 24
uracil	16, 17, 21, 24
nucleoside	17, 21
adenosine	17, 21-23, 39, 80
cytidine	17, 21-23
nucleotide	21, 23
adenosine triphosphate (ATP)	22, 23, 39, 41, 80

O

ocean	
Arctic	328
Atlantic	331
floor	9, 15, 332, 334, 335
Indian	317
Pacific	317, 318
surface	332, 333
World	290-292, 329, 331
oil	
basins	13
Lofoten	13
Namibe	13
black shale	8, 10-12
generation	5, 10, 12
Green River oil shale formation	8
field	4, 12
Rhourde El Baghel	11
White Tiger	12
Pool	5, 9-12
vanadium	10, 11
Oklo natural reactor	54
ontogenesis	45, 47, 52

ore	
deposit	73, 186, 188-190, 194, 195, 200, 235
mineralization	11, 73, 75, 117, 124, 189, 200
occurrence	73
ore-forming system	73-75
catagenetic	73
exfiltration	73, 74
infiltration	73, 75
organic	
acid	99
compound	13-15, 24, 26, 52, 76
substances	13, 15, 16, 18, 24, 25, 52, 95, 96
origin of life	23, 24, 26
oscillation	20, 41, 123, 194, 288, 298
circadian rhythm	121
cycle	11, 55, 122, 123, 268-272, 294, 296-298
periodicity	122, 258, 268-271, 308, 309
<i>Ostracodermi</i>	54
ozone	
depletion	309, 310, 313, 315, 317-320, 323, 327-329, 331, 336
Chapman cycle	310
hole	313-315, 329, 332, 333, 336
layer	309-311, 313, 315, 317-321, 323, 324, 327-329, 331-334, 336
near-ground	325, 327, 328
radiolysis	313
total ozone content (TOC)	312-317, 319, 321, 326-329

P

paragenesis	15, 18-24
peat	95, 96
peninsula	
Anatolian	227
Apennine	287
Calamita	235
Cape York	323
Crimean	221, 225, 227
Heracleon	225, 229, 232, 234
Kamchatka	93, 147, 335
Kola	5, 11, 93, 317, 319
peptide	23, 24
Petroglyphs Provincial Park	132
phosphate	17, 21-24
phospholipid	124

photosynthesis	320
C3 plant	44
C4 plant	44
Calvin cycle	44
Hatch–Slack cycle	44
placebo	240
plate	
African	274
Anatolian	274
Arabian	274, 278
Chinese	190
Eurasian	274, 278
Indian	274, 278
Scythian	227, 260
Siberian	190
Turanian	260, 278
province	
Guangxi	80
Guizhou	80
Hubei	82
Hunan	80
Ontario	116, 124, 132, 219
Shaanxi	80
psychology	
aggression	123
altered state of consciousness	216
anxiety	123
autoscopy	240
behavior	115, 116, 118, 120, 122-124, 128, 132, 135
bereavement apparition	121
cognitive style	123, 128-130
consciousness	124, 128, 240
creativity	120, 121, 124, 130, 132
d��j�� vu	217
dizziness	120
drug	216, 219, 238
hallucination	216, 217
hemispheric dominance	120, 123
hypergraphia	217
hypnagogia	121, 239
hypnopomp	121
hypnosis	240
lateralization	216, 239
left hander	239
meditation	216, 240
memory	117, 124
mystical experience	216-220, 236, 238-241
neuroelectromagnetic	120
neuromatrix	128
partial sensory deprivation	120

personality	128-130, 216
psychological techniques	216, 240
remote viewing	240
right hander	132
Self	216, 217
semantic memory recall	117
sensed presence	217
slow wave sleep	118
spirituality	120
telepathy	240
<i>Pterosaurs</i>	54

R

radiation	
background	50-52, 178, 325, 326
hormesis	50-52, 85, 88, 178, 201
low dose	51, 52, 85, 88, 178, 201
terrestrial	50-52, 85, 201
radon	
bathing	86
emission (emanation)	76, 86, 162, 178, 325
radium decay	86
rate	
incidence	77, 83, 84, 120, 121, 172, 173, 175, 176, 178, 179, 186, 195-197, 199, 201, 202, 206
morbidity	51, 75, 78, 82, 85, 86, 178, 186, 196-202, 204-206
mortality	79, 86, 119, 176, 177, 204, 277
prevalence	47, 77, 86, 176-179, 195-198, 200, 201
red tide	331, 334, 336
reduced gas	309, 311, 313, 315, 335, 336
region	
Aegean	270, 273, 274, 277, 280, 285, 287
Alaska	288
Altai Republic	148, 149, 187-191, 194-196, 201, 205
Antarctica	119, 313-315, 328, 331, 334-336
Arkhangelsk Region	83
Atacama Desert	83
Brittany	219
California	329, 331
Central Africa	323
Central Asia	73, 93, 272, 277, 279-281, 284, 285, 287-289
Crimea	93, 95, 221, 225, 226, 228, 230-232, 236, 238
Crimean Plain	227
Donbass	327

East Africa	323
East Antarctica	313
East European Plain	221
East Pacific	331, 332
Eastern Siberia	317, 329
Equatorial Africa	323
Hindustan	281
Kuzbass	327
Levant	274, 287
Marie Byrd Land	313
Mediterranean	273, 274, 277, 281, 287, 289
Mesopotamia	264, 280-283, 287
Middle Danube	293
Middle Dnieper	295
Near East	279-281
North America	271, 287, 295, 330
North Atlantic	295, 328
Northern Eurasia	296, 317, 318
Oecumene	272, 277, 279-282, 285, 288, 296
Palestine	280, 281, 283, 284, 287
Polesie	84
Pre-Caspian	317
Saint Petersburg Region	171, 176, 177
Scandinavia	288, 296, 315, 328
Siberia	82, 147, 148, 187, 295, 315, 317, 328, 329
South Africa	334
South America	309, 331, 334-336
South Coast of the Crimea	222, 225, 228
South India	323
South Ural	281
sub-Saharan Africa	82
Thuringia	84
Transbaikalia	82, 87, 93
Transcaucasia	289
Tyrol	81
Urov River Basin	82, 83
Ustyurt	317
Vale das Furnas	95
West Antarctica	282, 313
Yakutia	312, 317
religion	220, 282
Christianity	282
Christianization	238
iconoclastic period	225
iconodule	225
Islam	282
Islamization	225, 238
monk	225, 238, 240
religiosity	216
Russian Orthodox Church	225, 226, 231, 236

sacred place	219, 220, 232, 238-241
Vatican's proselytism	226
ridge, range	
Biyuk-Enishar	223
Kurai	154, 159, 163
North Chuya	148, 161, 162
South Chuya	163
Talysh	263
Walvis	335
rift	
East African	54, 312, 321, 323
Galapagos	323
Lambert	312, 314
Mendana	335
Red Sea	312
Rhine-Libyan	312, 315
Weddell-Ross	312-314
zone	9, 101, 311-313, 315, 324, 326, 327, 333-336
Rigveda	293
Ringer solution	51
river	
Ak-Turu	148, 152
Amu Darya	278, 284
Chernaya	235
Chuya	191
Danube	278, 293
Dnieper	278, 294, 295
Euphrates	278, 281
Indus	278, 274, 279, 281, 283, 285, 287
Nile	278, 281, 283
Oder	294, 295
Selenga	317
Uzboi Channel	284, 287
Volga	258, 259, 278, 289, 293
Yenisei	315
rock fracturing	146, 170, 179, 218, 234
runoff	219, 259, 287
rutin	147

S

salt mine	51, 98
sapropel	70, 90, 96
Schumann resonance	116
Scythian mound	219

-
- sea
 - Adriatic 287
 - Aegean 278, 290, 308
 - Amundsen 313
 - Aral 278, 284
 - Azov 221, 226, 228, 230, 291
 - Black 93, 221, 227-230, 236, 277, 278, 289, 290-292, 295, 328
 - Caribbean 309
 - Caspian 258-268, 278, 289, 290, 298, 336
 - Coral 323
 - Dead 287
 - Kara 296
 - Marmara 290
 - Mediterranean 278, 290-292, 308
 - Okhotsk 147
 - Red 219, 278, 315, 316
 - Ross 313
 - White 328
 - sea level
 - Black Sea level 290-292
 - Caspian level 258, 259, 264-268, 289, 298
 - Dead Sea level 287
 - Derbent regression 289
 - Hadjibey regression 290
 - Nymphaeum transgression 291, 292
 - Phanagorian regression 290-292
 - sedimentary
 - basin 10-12
 - cover 73, 200, 260-263, 267
 - seismicity
 - aftershock 161, 191-193, 197, 202-204, 206
 - dynamic stress field 201, 206
 - earthquake
 - Byzantine tectonic paroxysm 287, 292
 - 2003 Chuya 161, 187, 191-193, 197, 201-205
 - 1927 Crimean 236
 - 1890 Gorgan 263, 265, 266
 - 2000 Great Balkhan 260
 - 1946 Kazanjik 263, 266
 - 1895 Krasnovodsk 263, 265, 266
 - lights 218, 236
 - preparation 194, 195, 201, 202, 204, 206, 218
 - 1990 Rudbar 263, 266
 - 1902 Shemakha 263, 266
 - electron hole current 218, 220, 241
 - epicenter 116, 190-194, 197, 203, 204, 219, 228, 230, 234, 261, 263, 273, 275, 322
 - focal zone 260, 263
 - lithospheric stress 218-220, 241

mechanoelectricity	218
microseismicity	204
microvibration	204
paleoseismic dislocation	232, 236
seismic activity	70, 75, 134, 161, 163, 186, 190-192, 204, 219, 220, 241, 269, 277, 288, 297, 334
seismic energy	191, 260, 263-266, 269, 270, 272, 274, 276, 287, 288
seismic power	264, 265
seismotectonic province	260, 261, 264, 274, 276, 288
self-luminous object	188-191, 194, 195, 200, 218-220, 236, 238, 241
shield	
Baltic	171
Canadian	125
Fennoscandian	26
Ukrainian	227
shilajit	70, 99-101
skin color	323
soil pollution	173-176
spa	
ammothotherapy	97
balneotherapy	70, 90
moor	70, 90, 95, 96
pelotherapy	70, 95, 96
peloid	94, 95
speleotherapy	98
state (ancient, medieval)	
Akkad Empire	277
Arabian Caliphate	282
Armenia	273, 283-285, 288, 289
Assyria	280, 281
Babylon	279-281
Bactria	277, 278, 287
Byzantine Empire	225, 238, 273, 274, 282
China	122, 277, 284, 308
Egypt	277, 279-281, 283, 285
Golden Horde	225
Greece	273, 280
Hittite Kingdom	280
India	281, 284
Iran (Persia)	122, 277-282, 284, 287, 289, 292
Israel	281, 285, 287
Japan	122, 277, 308
Kievan Rus	295, 296
Mataram	308
Moscow, Grand Duchy	295
Ottoman Empire	225, 226
Roman Empire	279, 281, 282, 287, 295
Russia, Tsardom	296

-
- | | |
|----------------------------|---|
| Russian Empire | 295, 296 |
| Sogdiana | 277, 278 |
| Syria | 280, 281, 283, 287, 288 |
| Urartu | 273, 278, 285 |
| state (modern) | |
| Argentina | 80 |
| Australia | 79, 82, 323, 331 |
| Bangladesh | 70, 80 |
| Belarus | 84 |
| Canada | 8, 9, 116, 125, 130, 219 |
| Chile | 70, 80, 81, 83, 277, 316, 331, 332, 335 |
| China | 54, 70, 77, 80, 82, 187, 196, 287 |
| Ecuador | 321, 323, 331, 335 |
| Egypt | 97, 219 |
| Finland | 80 |
| Hungary | 80 |
| India | 54, 70, 77, 86 |
| Indonesia | 323, 331 |
| Italy | 93, 97 |
| Japan | 93, 309 |
| Kazakhstan | 187, 196, 284 |
| Kyrgyzstan | 87 |
| Lithuania | 77 |
| Mexico | 70, 80 |
| Montenegro | 75 |
| Namibia | 335 |
| New Zealand | 79, 82, 89, 95 |
| Peru | 277, 316, 331, 332, 335 |
| Poland | 99 |
| Romania | 75 |
| Russia | 5, 10, 77-79, 82, 83, 86, 87, 93, 98-100, 118,
148, 171, 187, 196, 296, 319, 328, 335, 336 |
| Senegal | 82 |
| Serbia | 75 |
| Spain | 328 |
| Sri Lanka | 323 |
| Sweden | 25 |
| Tajikistan | 83 |
| Thailand | 70, 80 |
| Ukraine | 84, 99, 327 |
| USA | 8, 75, 82, 86, 315 |
| strait | |
| Bosporus | 290-292 |
| Danish | 295 |
| Dardanelles | 290, 292 |
| Drake Passage | 313 |
| Kerch (Cimmerian Bosporus) | 290, 291 |
| South Kuril | 335 |

stratosphere	310, 311, 317, 319, 320, 327, 328, 332, 333, 336
stress	37, 49, 51, 52, 99, 101, 146, 161, 170, 186, 201-204
Sufism	226, 239
azise	232
dervish	226
Naqshbandi	226
Suhrawardi	226
suicide	123
Sun	26, 123, 297, 315, 334, 336
solar activity	119, 122, 268, 269, 272, 297, 298, 309
synergism	116, 123, 176, 325

T

tekke	224, 226, 231, 233, 234, 238
Ahmed-Efendi	224
Caliph Ahmed-Efendi of Kolech	224
Damad-Efendi	224
Gazy-Mansur	224
Kady-Male	224
Kemal-Ata	224
Khan Jami	224
Khodji-Suleiman	224
Khyzr Shah-Efendi	224
Kyrk-Azis	224
Muhammed-Efendi	224
Sakyz-Khan	224
Shukurla-Efendi	224
Sulu-Koba	224
Tahir-Bey	224
Yeni Jami	224
Yer-Utkan	224
Yeshil Jami	224
tectonic	
activity	54, 72, 125, 186, 268, 285, 298
movement	180, 189, 258, 264, 272, 293, 325
strain theory	218
tide	86, 123
topographic barrier	324, 325
trace element	10, 55, 70, 76, 78, 89, 90, 94-99, 101, 124, 146, 170, 192
arsenic	80, 81, 125, 132
calcium	82, 83, 92, 191
cobalt	78, 79

fluorine	76, 77
iodine	82-84
lead	45, 86, 125
mercury	189, 193
selenium	81-83
silicon	77, 78
strontium	45, 82, 83
uranium	52, 54, 75, 84, 85, 89, 97, 116, 125, 171, 172, 178, 325, 326
zinc	79
traffic accident	123, 172, 174
tribe, ethnos	
Achaean	279, 280, 285
Arabic nomads	282
Arameans	279, 281, 284
Aryans	281
Canaanites	281
Chaldeans	281
Cimmerians	294
Crimean Greeks	238
Crimean Tatars	225, 231, 238
Dorians	280, 285
Dravidians	281
Etruscans	280
Hittites	281
Irano-Aryans	281
Indo-Europeans	293
Jewish nomads	281
Khazarians	278, 289
Libyans	280
Lycians	280
Native Americans	238
Neurians	295
Pelasgians (Philistines)	280, 281, 285
Peoples of Sea	279, 280, 285
pre-Slavs	294-296
Sarmatians	295
Scythians	278, 294, 295
Sicelians	280, 285
Skolots (Borysthenites)	278, 295
Slavs	293-296
Thracians-Illyrians	280, 285
troposphere	321, 327, 328

U

ultraviolet	309, 320
UVB	55, 309, 320, 321, 323-326, 336, 337
index	321, 322

V

Vavilov centers	146, 163, 322, 324-326
virus	
human immunodeficiency (HIV)	323
human T-cell lymphotropic type I	323
vitamin	95, 96
B ₁₂	78
cobalamin	78, 79
D ₃	320
volcanism	81, 93, 258, 272, 279, 284
activity	35, 54, 55, 88, 89, 93, 283, 288, 309, 313
alkaline	317
calc-alkaline	318
dust	81
gases	88, 89
laccolite	230, 231, 234
lapilli	88
lava	88
tephra	88
tholeitic	315, 317, 323
ultra alkaline	317
volcano	73
Agua	308
Ilyinsky	335
Kambalny	335
Merapi	308
mud	267
Nyiragongo	321
Porak	283
Santorini	308

W

water	
balance	258, 259, 267, 292, 298
bicarbonate-sulfate	90
brine	73, 83, 90
carbonated	89, 92
fumarolic	93
groundwater	34, 54, 70, 77-80, 83, 98, 101, 146, 161, 162, 170, 191-193, 202, 204, 259, 267, 268, 298, 325, 326
mineral	70, 86, 87, 89, 90-94, 98, 238, 240
ocean	328, 329, 332, 334
sodium-chloride	90
thermal	70, 81, 90, 91, 93, 238, 240
total dissolved solids (TDS)	90, 95, 191, 192
wax	99
Weber's law	117
window effect	240
Wolf number	268

Y

Yoga	239
pranayama	239